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<141> 2000-10-10

<150> PCT/US00/08979

<151> 2000-04-06

<150> 60/128,693

<151> 1999-04-09

<150> 60/130,991

<151> 1999-04-26

<160> 344

<170> PatentIn Ver. 2.0

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<210> 16

<211> 1257

<212> DNA

<213> Homo sapiens

<400> 16

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<210> 17

<211> 2163

<212> DNA

<213> Homo sapiens

<400> 17

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 <212> DNA
 <213> Homo sapiens

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<210> 19
 <211> 774
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (760)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (763)
 <223> n equals a,t,g, or c

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<210> 20
 <211> 1549
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (873)
 <223> n equals a,t,g, or c

<220>
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 <222> (895)
 <223> n equals a,t,g, or c

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<210> 21
 <211> 1189
 <212> DNA
 <213> Homo sapiens

<400> 21						
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<210> 22
 <211> 2460
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (172)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2457)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2459)
 <223> n equals a,t,g, or c

<220>
 <221> SITE

<222> (2460)

<223> n equals a,t,g, or c

<400> 22

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<210> 23

<211> 4386

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (3477)

<223> n equals a,t,g, or c

<400> 23

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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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<210> 31
 <211> 1886
 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

<220>
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 <222> (1934)
 <223> n equals a,t,g, or c

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<210> 33

<211> 2623

<212> DNA

<213> Homo sapiens

<400> 33

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 <211> 1461
 <212> DNA
 <213> Homo sapiens

<400> 34						
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<211> 953

<212> DNA

<213> Homo sapiens

<400> 35

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<210> 36

<211> 1340

<212> DNA

<213> Homo sapiens

<220>

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<222> (851)

<223> n equals a,t,g, or c

<400> 36

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 <211> 2199
 <212> DNA
 <213> Homo sapiens

<400> 37						
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 <211> 989
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
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 <222> (979)
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 <211> 2048
 <212> DNA
 <213> Homo sapiens

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<211> 2694

<212> DNA

<213> Homo sapiens

<400> 40

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<211> 2763

<212> DNA

<213> Homo sapiens

<400> 41

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 <211> 1139
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (915)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1123)
 <223> n equals a,t,g, or c

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<210> 43
 <211> 2590
 <212> DNA
 <213> Homo sapiens

<400> 43						
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 aaaaaaaaaa 2590

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 <211> 2634
 <212> DNA
 <213> Homo sapiens

<400> 44
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 gaagcacatc aggaactgtt ggtagatga agtcatgcag gtaaagctgc tgtgcactgc 180
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<210> 45
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 45						
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tcatgca	tcctctt	ccaaac	tgctct	ttgta	ttgttc	300
ctcatcc	actttta	tgtgtc	gtaagt	agtatt	gcagg	360
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<210> 46
 <211> 3037
 <212> DNA
 <213> Homo sapiens

<400> 46						
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 <211> 419
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> n equals a,t,g, or c

<400> 47
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 ggttttgttc attttcctta tattaagga aacaaccaga ccagcagctt tctgtgtctc 180
 cgtggagtc tgctatgggt ctgggagttg cctctcctct ctttctgtcg agtggcccgg 240
 ccagtgcagt tggcggctcc tgcgtctccc cttcaccaga gtagctctgc ctttacctgt 300
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 catacagtga aacccacag aacaaaactg gagctgcata caaaaaaaaa aaaaaaaaaa 419

<210> 48
 <211> 940
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (726)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (727)
 <223> n equals a,t,g, or c

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<210> 49
 <211> 760
 <212> DNA
 <213> Homo sapiens

<400> 49
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 aaaaaaaaaa aggctgggtca tgcatctgtg gtcccagcta cttgggaggc tgtggcagga 120
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<210> 50

<211> 2479

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (240)

<223> n equals a,t,g, or c

<400> 50

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<210> 51
 <211> 1573
 <212> DNA
 <213> Homo sapiens

<400> 51						
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aaaaaaaaaa	aaa					1573

<210> 52
 <211> 1677
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (537)
 <223> n equals a,t,g, or c

<400> 52						
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<210> 53

<211> 1892

<212> DNA

<213> Homo sapiens

<400> 53

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<210> 54
 <211> 1646
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1544)
 <223> n equals a,t,g, or c

<400> 54						
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<210> 55
 <211> 1558
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1443)
 <223> n equals a,t,g, or c

<220>
 <221> SITE

<222> (1460)
 <223> n equals a,t,g, or c

<220>
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 <222> (1494)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
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 <222> (1543)
 <223> n equals a,t,g, or c

<400> 55

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<210> 56
 <211> 753
 <212> DNA
 <213> Homo sapiens

<400> 56

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<210> 57

<211> 1769

<212> DNA

<213> Homo sapiens

<400> 57

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ccacctgggt	ggatctgatt	cctggatttc	cccatcctgg	ggasaggtga	cccatcctgt	180
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cgggtttggg	gaagttgtca	aggaatgagg	gaaagtaaat	cctcatgagg	aaaagtacaa	480
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gccctgtatt	ttgttaacat	gtatatatgt	acaacagtgt	gtttgtaaat	atataggaac	660
gtttctgaac	agggctctgt	ctatgtgtaa	aggtttgtta	actgtaaaagt	aatataaagt	720
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aaaaaaaggg	cggccgctct	agaggatccc	tcgagggggc	caagcttacc	gtgcatgcga	1740
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<210> 58

<211> 626

<212> DNA

<213> Homo sapiens

<400> 58

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gccttgccag	gagagcctgc	cctcagactg	caggaccaga	acctctgcct	ccatctttcc	480
aagcaccggg	gcgaaaaacc	acaaaggaaa	ggaagaaatt	tatatatata	taatataaaa	540
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taaaaaaaaa	aaaaaaaaaa	aaaagg				626

<210> 59
 <211> 634
 <212> DNA
 <213> Homo sapiens

<400> 59	
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tgtgcctggt	gaccaaaagtc
atctgggttt	ccccctctcc
atatttccca	tcccccttcc
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tctttgcaat	gcattgtatg
aaaaaaaaaa	aaaaaaaaaa
aaaaaaaaaa	aaaaaaaaaa
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	600
	634

<210> 60
 <211> 627
 <212> DNA
 <213> Homo sapiens

<400> 60	
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gctaggtgag	gggaactgtt
tccatagagg	agaacaagca
ccgattccta	atctcttgct
tgtaatccag	aatatttagga
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	360
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	600
	627

<210> 61
 <211> 632
 <212> DNA
 <213> Homo sapiens

<400> 61	
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	60
	120
	180
	240
	300

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aggcccagag	gtggaaaaaa	aaaaaaaaaa	aa			632

<210> 62

<211> 706

<212> DNA

<213> Homo sapiens

<400> 62

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gtgggttccaa	cttgaatttt	aatgcctttt	tgtgggctac	acatggcttc	acctagcatc	180
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aagtaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaa		706

<210> 63

<211> 1345

<212> DNA

<213> Homo sapiens

<400> 63

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tgccatggct	gtgatgaacc	accatgtatg	ccctgtggag	aactggctct	acaacgagtc	180
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gggcagccct	gtgtgagtgg	gtgtgtgtca	tcgatatcct	cattttctat	ggcaccttca	660
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<210> 64
 <211> 773
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> n equals a,t,g, or c

<220>
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 <222> (11)
 <223> n equals a,t,g, or c

<220>
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 <222> (51)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (53)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (69)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (112)
 <223> n equals a,t,g, or c

<400> 64
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<210> 65
 <211> 1569
 <212> DNA
 <213> Homo sapiens

<220>

10050704-011302

<221> SITE
 <222> (282)
 <223> n equals a,t,g, or c

<400> 65

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gggatcagct	ctgtctgggg	aaagaagctg	caccagcctc	tgaatagcag	gctgagtcac	180
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<210> 66
 <211> 2657
 <212> DNA
 <213> Homo sapiens

<220>

<221> SITE
 <222> (179)
 <223> n equals a,t,g, or c

<400> 66

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<210> 67
 <211> 1355
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1327)
 <223> n equals a,t,g, or c

<400> 67						
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<210> 68
 <211> 945
 <212> DNA
 <213> Homo sapiens

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 <222> (927)
 <223> n equals a,t,g, or c

<220>
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 <222> (929)
 <223> n equals a,t,g, or c

<400> 68							
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<210> 69
 <211> 1799
 <212> DNA
 <213> Homo sapiens

<400> 69							
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<210> 70

<211> 1984

<212> DNA

<213> Homo sapiens

<400> 70

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<210> 71

<211> 2084

<212> DNA

<213> Homo sapiens

<400> 71

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<210> 72

<211> 734

<212> DNA

<213> Homo sapiens

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<400> 72

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<210> 73

<211> 1538

<212> DNA

<213> Homo sapiens

<400> 73

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<210> 74

<211> 3227

<212> DNA

<213> Homo sapiens

<400> 74

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<210> 75

<211> 1654

<212> DNA

<213> Homo sapiens

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<400> 75

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<211> 1763

<212> DNA

<213> Homo sapiens

<400> 76

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<210> 77

<211> 4385

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (3476)

<223> n equals a,t,g, or c

<400> 77

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<210> 78

<211> 4386

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (3477)

<223> n equals a,t,g, or c

<400> 78

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<210> 79

<211> 928

<212> DNA

<213> Homo sapiens

<400> 79

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<211> 2636

<212> DNA

<213> Homo sapiens

<400> 80

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<210> 81
 <211> 2636
 <212> DNA
 <213> Homo sapiens

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 <222> (632)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

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<210> 82
 <211> 1320
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (831)
 <223> n equals a,t,g, or c

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<210> 83

<211> 634

<212> DNA

<213> Homo sapiens

<400> 83

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<210> 84

<211> 655

<212> DNA

<213> Homo sapiens

<400> 84

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<210> 85

<211> 2410

<212> DNA

<213> Homo sapiens

<400> 85

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<210> 86

<211> 2921

<212> DNA

<213> Homo sapiens

<400> 86

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<210> 87
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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
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 <222> (18)
 <223> n equals a,t,g, or c

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 <211> 931
 <212> DNA
 <213> Homo sapiens

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 <222> (717)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (718)
 <223> n equals a,t,g, or c

<400> 88	
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<210> 89
 <211> 1420
 <212> DNA
 <213> Homo sapiens

"1005004" 011802

<400> 89

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<210> 90

<211> 1183

<212> DNA

<213> Homo sapiens

<400> 90

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<210> 91

<211> 1881

<212> DNA
<213> Homo sapiens

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<222> (6)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (48)
<223> n equals a,t,g, or c

<400> 91
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<210> 92
<211> 1433
<212> DNA
<213> Homo sapiens

1050704 011803

<400> 92

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<210> 93

<211> 2454

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2317)

<223> n equals a,t,g, or c

<400> 93

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tctggttgac	tccttgaagc	tggtgtctt	catgtggtg	atgacctatg	ttggtgctgt	240
ttttaacgga	atcaccttc	taattcttgc	tgaactgtc	attttcagtg	tcccgattgt	300
ctatgagaag	tacaagacct	agattgatca	ctatgttggc	atcgcccag	atcagaccaa	360
gtcaattggt	gaaaagatcc	aagcaaaact	ccctggaatc	gccccaaaaa	aggcagaata	420
agtacatgga	aaccagaaat	gcaacagtta	ctaaaacacc	atttaatatg	tataacgtcg	480
ttacttgtac	tatgaaggaa	aatactcagt	gtcagcttga	gcctgcattc	caagcttttt	540
ttttaatttg	gtgtttttctc	ccatcctttc	cctttaaccc	tcagtatcaa	gcacaaaaat	600
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gcgagcctg	aatggcraat	gggacgcgcc	ctgtagcggc	gcattaagcg	cggcggtgtg	2400
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<210> 94

<211> 1775

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (820)

<223> n equals a,t,g, or c

<400> 94

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tgggtaaaga	tggccccatg	gccccgaag	ggcctagtc	cagctgtgct	ctggggcctc	120
agcctcttcc	tcaacctccc	aggacctatc	tggctccagc	cctctccacc	tccccagtct	180
tctccccgc	ctcagcccca	tccgtgtcat	acctgcgggg	gactggttga	cagctttaac	240
aagggtctgg	agagaacct	ccgggacaac	tttgagggtg	gaaacactgc	ctgggaggaa	300
gagaatttgt	ccaaatacaa	agacagtga	accgcctgg	tagagggtgct	ggagggtgtg	360
tgcagcaagt	cagacttcga	gtgccaccgc	ctgctggagc	tgagtgaagg	gctgggtggag	420
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ctgtgttcac	cacatcccca	cacccattg	ccacttattt	attcatctca	ggaaataaag	1680
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<210> 95
 <211> 1379
 <212> DNA
 <213> Homo sapiens

<400> 95						
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gcctcttctc	caacctccca	ggacctatct	ggctccagcc	ctctccacct	ccccagctct	180
ctccccgcgc	tcagcccatc	cgtgtgcata	cctgccgggg	actgggtgac	agctttaaca	240
agggcctgga	gagaaccatc	cgggacaact	ttggaggtgg	aaacactgcc	tgggaggaag	300
agaattttgtc	caaatacaaa	gacagtgaga	cccgcctggt	agaggtgctg	gaggggtgtgt	360
gcagcaagtc	agacttcgag	tgccaccgcc	tgctggagct	gagtgaggag	ctgggtggaga	420
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gctactttga	ggcagaacgc	aacgccagcc	atctggtatg	ttcggcttgt	tttggccct	720
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<210> 96
 <211> 700
 <212> DNA
 <213> Homo sapiens

<400> 96						
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catttttcat	ggtgatgatt	ttattttag	ctttcataac	ctgttgggaa	gaagttacta	180
cttttggtaca	ggctatcagg	ataacttcct	atatgaatga	aactatctta	tattttcctt	240
tttcatccca	ctccagttat	actgtgagat	ctaaaaaaat	attcttatcc	aagctcattg	300
tctgttttct	cagtacctgg	ttaccatttg	tactacttca	ggtaatcatt	gttttactta	360
aagttcagat	tccagcatat	attgagatga	atattccctg	gttatacttt	gtcaatagtt	420
ttctcattgc	tacagtgtat	tggtttaatt	gtcacaaagt	taatttaaaa	gacattggat	480
taccttttga	tccatttgtc	aactggaagt	gctgcttcat	tccacttaca	attcctaate	540
ttgagcaaat	tgaaaagcct	atatcaataa	tgatttgtta	atattattaa	ttaaaagtta	600
cagctgtcat	aagatcataa	ttttatgaac	agaaagaact	caggacatat	taaaaataaa	660
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<210> 97
 <211> 401
 <212> PRT
 <213> Homo sapiens

<400> 97

Met	Arg	Leu	Arg	Leu	Arg	Leu	Leu	Ala	Leu	Leu	Leu	Leu	Leu	Ala	
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Pro	Pro	Ala	Arg	Ala	Pro	Lys	Pro	Ser	Ala	Gln	Asp	Val	Ser	Leu	Gly
			20					25					30		
Val	Asp	Trp	Leu	Thr	Arg	Tyr	Gly	Tyr	Leu	Pro	Pro	Pro	His	Pro	Ala
	35						40					45			
Gln	Ala	Gln	Leu	Gln	Ser	Pro	Glu	Lys	Leu	Arg	Asp	Ala	Ile	Lys	Val
	50					55					60				
Met	Gln	Arg	Phe	Ala	Gly	Leu	Pro	Glu	Thr	Gly	Arg	Met	Asp	Pro	Gly
65					70					75					80
Thr	Val	Ala	Thr	Met	Arg	Lys	Pro	Arg	Cys	Ser	Leu	Pro	Asp	Val	Leu
				85					90					95	
Gly	Val	Ala	Gly	Leu	Val	Arg	Arg	Arg	Arg	Arg	Tyr	Ala	Leu	Ser	Gly
			100					105					110		
Ser	Val	Trp	Lys	Lys	Arg	Thr	Leu	Thr	Trp	Arg	Val	Arg	Ser	Phe	Pro
		115					120					125			
Gln	Ser	Ser	Gln	Leu	Ser	Gln	Glu	Thr	Val	Arg	Val	Leu	Met	Ser	Tyr
	130					135					140				
Ala	Leu	Met	Ala	Trp	Gly	Met	Glu	Ser	Gly	Leu	Thr	Phe	His	Glu	Val
145					150					155					160
Asp	Ser	Pro	Gln	Gly	Gln	Glu	Pro	Asp	Ile	Leu	Ile	Asp	Phe	Ala	Arg
				165					170					175	
Ala	Phe	His	Gln	Asp	Ser	Tyr	Pro	Phe	Asp	Gly	Leu	Gly	Gly	Thr	Leu
			180					185					190		
Ala	His	Ala	Phe	Phe	Pro	Gly	Glu	His	Pro	Ile	Ser	Gly	Asp	Thr	His
		195					200					205			
Phe	Asp	Asp	Glu	Glu	Thr	Trp	Thr	Phe	Gly	Ser	Lys	Asp	Gly	Glu	Gly
	210					215					220				
Thr	Asp	Leu	Phe	Ala	Val	Ala	Val	His	Glu	Phe	Gly	His	Ala	Leu	Gly
225					230					235					240
Leu	Gly	His	Ser	Ser	Ala	Pro	Asn	Ser	Ile	Met	Arg	Pro	Phe	Tyr	Gln
				245					250					255	
Gly	Pro	Val	Gly	Asp	Pro	Asp	Lys	Tyr	Arg	Leu	Ser	Gln	Asp	Asp	Arg
			260					265					270		

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Asp Gly Leu Gln Gln Leu Tyr Gly Lys Ala Pro Gln Thr Pro Tyr Asp
275 280 285

Lys Pro Thr Arg Lys Pro Leu Ala Pro Pro Pro Gln Pro Pro Ala Ser
290 295 300

Pro Thr His Ser Pro Ser Phe Pro Ile Pro Asp Arg Cys Glu Gly Asn
305 310 315 320

Phe Asp Ala Ile Ala Asn Ile Arg Gly Glu Thr Phe Phe Phe Lys Gly
325 330 335

Pro Trp Phe Trp Arg Leu Gln Pro Ser Gly Gln Leu Val Ser Pro Arg
340 345 350

Pro Ala Arg Leu His Arg Phe Trp Glu Gly Leu Pro Ala Gln Val Arg
355 360 365

Val Val Gln Ala Ala Tyr Ala Arg His Arg Asp Gly Arg Ile Leu Leu
370 375 380

Phe Ser Gly Pro Gln Phe Trp Val Phe Gln Asp Arg Gln Leu Glu Gly
385 390 395 400

Gly

<210> 98

<211> 205

<212> PRT

<213> Homo sapiens

<400> 98

Met Gly Thr Ala Gly Ala Met Gln Leu Cys Trp Val Ile Leu Gly Phe
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Leu Leu Phe Arg Gly His Asn Ser Gln Pro Thr Met Thr Gln Thr Ser
20 25 30

Ser Ser Gln Gly Gly Leu Gly Gly Leu Ser Leu Thr Thr Glu Pro Val
35 40 45

Ser Ser Asn Pro Gly Tyr Ile Pro Ser Ser Glu Ala Asn Arg Pro Ser
50 55 60

His Leu Ser Ser Thr Gly Thr Pro Gly Ala Gly Val Pro Ser Ser Gly
65 70 75 80

Arg Asp Gly Gly Thr Ser Arg Asp Thr Phe Gln Thr Val Pro Pro Asn
85 90 95

Ser Thr Thr Met Ser Leu Ser Met Arg Glu Asp Ala Thr Ile Leu Pro
100 105 110

Ser Pro Thr Ser Glu Thr Val Leu Thr Val Ala Ala Phe Gly Val Ile
115 120 125

10050704.011002

Ser Phe Ile Val Ile Leu Val Val Val Val Ile Ile Leu Val Gly Val
130 135 140

Val Ser Leu Arg Phe Lys Cys Arg Lys Ser Lys Glu Ser Glu Asp Pro
145 150 155 160

Gln Lys Pro Gly Ser Ser Gly Leu Ser Glu Ser Cys Ser Thr Ala Asn
165 170 175

Gly Glu Lys Asp Ser Ile Thr Leu Ile Ser Met Lys Asn Ile Asn Met
180 185 190

Asn Asn Gly Lys Gln Ser Leu Ser Ala Glu Lys Val Leu
195 200 205

<210> 99

<211> 672

<212> PRT

<213> Homo sapiens

<400> 99

Met Cys Ser Arg Val Pro Leu Leu Leu Pro Leu Leu Leu Leu Ala
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Leu Gly Pro Gly Val Gln Gly Cys Pro Ser Gly Cys Gln Cys Ser Gln
20 25 30

Pro Gln Thr Val Phe Cys Thr Ala Arg Gln Gly Thr Thr Val Pro Arg
35 40 45

Asp Val Pro Pro Asp Thr Val Gly Leu Tyr Val Phe Glu Asn Gly Ile
50 55 60

Thr Met Leu Asp Ala Gly Ser Phe Ala Gly Leu Pro Gly Leu Gln Leu
65 70 75 80

Leu Asp Leu Ser Gln Asn Gln Ile Ala Ser Leu Pro Ser Gly Val Phe
85 90 95

Gln Pro Leu Ala Asn Leu Ser Asn Leu Asp Leu Thr Ala Asn Arg Leu
100 105 110

His Glu Ile Thr Asn Glu Thr Phe Arg Gly Leu Arg Arg Leu Glu Arg
115 120 125

Leu Tyr Leu Gly Lys Asn Arg Ile Arg His Ile Gln Pro Gly Ala Phe
130 135 140

Asp Thr Leu Asp Arg Leu Leu Glu Leu Lys Leu Gln Asp Asn Glu Leu
145 150 155 160

Arg Ala Leu Pro Pro Leu Arg Leu Pro Arg Leu Leu Leu Leu Asp Leu
165 170 175

Ser His Asn Ser Leu Leu Ala Leu Glu Pro Gly Ile Leu Asp Thr Ala
180 185 190

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Asn Val Glu Ala Leu Arg Leu Ala Gly Leu Gly Leu Gln Gln Leu Asp
 195 200 205
 Glu Gly Leu Phe Ser Arg Leu Arg Asn Leu His Asp Leu Asp Val Ser
 210 215 220
 Asp Asn Gln Leu Glu Arg Val Pro Pro Val Ile Arg Gly Leu Arg Gly
 225 230 235 240
 Leu Thr Arg Leu Arg Leu Ala Gly Asn Thr Arg Ile Ala Gln Leu Arg
 245 250 255
 Pro Glu Asp Leu Ala Gly Leu Ala Ala Leu Gln Glu Leu Asp Val Ser
 260 265 270
 Asn Leu Ser Leu Gln Ala Leu Pro Gly Asp Leu Ser Gly Leu Phe Pro
 275 280 285
 Arg Leu Arg Leu Leu Ala Ala Ala Arg Asn Pro Phe Asn Cys Val Cys
 290 295 300
 Pro Leu Ser Trp Phe Gly Pro Trp Val Arg Glu Ser His Val Thr Leu
 305 310 315 320
 Ala Ser Pro Glu Glu Thr Arg Cys His Phe Pro Pro Lys Asn Ala Gly
 325 330 335
 Arg Leu Leu Leu Glu Leu Asp Tyr Ala Asp Phe Gly Cys Pro Ala Thr
 340 345 350
 Thr Thr Thr Ala Thr Val Pro Thr Thr Arg Pro Val Val Arg Glu Pro
 355 360 365
 Thr Ala Leu Ser Ser Ser Leu Ala Pro Thr Trp Leu Ser Pro Thr Ala
 370 375 380
 Pro Ala Thr Glu Ala Pro Ser Pro Pro Ser Thr Ala Pro Pro Thr Val
 385 390 395 400
 Gly Pro Val Pro Gln Pro Gln Asp Cys Pro Pro Ser Thr Cys Leu Asn
 405 410 415
 Gly Gly Thr Cys His Leu Gly Thr Arg His His Leu Ala Cys Leu Cys
 420 425 430
 Pro Glu Gly Phe Thr Gly Leu Tyr Cys Glu Ser Gln Met Gly Gln Gly
 435 440 445
 Thr Arg Pro Ser Pro Thr Pro Val Thr Pro Arg Pro Pro Arg Ser Leu
 450 455 460
 Thr Leu Gly Ile Glu Pro Val Ser Pro Thr Ser Leu Arg Val Gly Leu
 465 470 475 480
 Gln Arg Tyr Leu Gln Gly Ser Ser Val Gln Leu Arg Ser Leu Arg Leu
 485 490 495
 Thr Tyr Arg Asn Leu Ser Gly Pro Asp Lys Arg Leu Val Thr Leu Arg

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500 505 510
 Leu Pro Ala Ser Leu Ala Glu Tyr Thr Val Thr Gln Leu Arg Pro Asn
 515 520 525
 Ala Thr Tyr Ser Val Cys Val Met Pro Leu Gly Pro Gly Arg Val Pro
 530 535 540
 Glu Gly Glu Glu Ala Cys Gly Glu Ala His Thr Pro Pro Ala Val His
 545 550 555 560
 Ser Asn His Ala Pro Val Thr Gln Ala Arg Glu Gly Asn Leu Pro Leu
 565 570 575
 Leu Ile Ala Pro Ala Leu Ala Ala Val Leu Leu Ala Ala Leu Ala Ala
 580 585 590
 Val Gly Ala Ala Tyr Cys Val Arg Arg Gly Arg Ala Met Ala Ala Ala
 595 600 605
 Ala Gln Asp Lys Gly Gln Val Gly Pro Gly Ala Gly Pro Leu Glu Leu
 610 615 620
 Glu Gly Val Lys Val Pro Leu Glu Pro Gly Pro Lys Ala Thr Glu Ala
 625 630 635 640
 Val Glu Arg Pro Cys Pro Ala Gly Leu Ser Val Lys Cys His Ser Trp
 645 650 655
 Ala Ser Lys Ala Trp Pro Gln Ser Pro Leu His Ala Lys Pro Tyr Ile
 660 665 670

<210> 100
 <211> 386
 <212> PRT
 <213> Homo sapiens

<400> 100

Met Lys Phe Gln Gly Pro Leu Ala Cys Leu Leu Leu Ala Leu Cys Leu
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Gly Ser Gly Glu Ala Gly Pro Leu Gln Ser Gly Glu Glu Ser Thr Gly
 20 25 30

Thr Asn Ile Gly Glu Ala Leu Gly His Gly Leu Gly Asp Ala Leu Ser
 35 40 45

Glu Gly Val Gly Lys Ala Ile Gly Lys Glu Ala Gly Gly Ala Ala Gly
 50 55 60

Ser Lys Val Ser Glu Ala Leu Gly Gln Gly Thr Arg Glu Ala Val Gly
 65 70 75 80

Thr Gly Val Arg Gln Val Pro Gly Phe Gly Ala Ala Asp Ala Leu Gly

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85

90

95

Asn Arg Val Gly Glu Ala Ala His Ala Leu Gly Asn Thr Gly His Glu
 100 105 110
 Ile Gly Arg Gln Ala Glu Asp Val Ile Arg His Gly Ala Asp Ala Val
 115 120 125
 Arg Gly Ser Trp Gln Gly Val Pro Gly His Asn Gly Ala Trp Glu Thr
 130 135 140
 Ser Gly Gly His Gly Ile Phe Gly Ser Gln Gly Gly Leu Gly Gly Gln
 145 150 155 160
 Gly Gln Gly Asn Pro Gly Gly Leu Gly Thr Pro Trp Val His Gly Tyr
 165 170 175
 Pro Gly Asn Ser Ala Gly Ser Phe Gly Met Asn Pro Gln Gly Ala Pro
 180 185 190
 Trp Gly Gln Gly Gly Asn Gly Gly Pro Pro Asn Phe Gly Thr Asn Thr
 195 200 205
 Gln Gly Ala Val Ala Gln Pro Gly Tyr Gly Ser Val Arg Ala Ser Asn
 210 215 220
 Gln Asn Glu Gly Cys Thr Asn Pro Pro Pro Ser Gly Ser Gly Gly Gly
 225 230 235 240
 Ser Ser Asn Ser Gly Gly Gly Ser Gly Ser Gln Ser Gly Ser Ser Gly
 245 250 255
 Ser Gly Ser Asn Gly Asp Asn Asn Asn Gly Ser Ser Ser Gly Gly Ser
 260 265 270
 Ser Ser Gly Ser Ser Ser Gly Gly Ser Ser Gly Gly Ser Ser Gly Gly
 275 280 285
 Ser Ser Gly Asn Ser Gly Gly Ser Arg Gly Asp Ser Gly Ser Glu Ser
 290 295 300
 Ser Trp Gly Ser Ser Thr Gly Ser Ser Ser Gly Asn His Gly Gly Ser
 305 310 315 320
 Gly Gly Gly Asn Gly His Lys Pro Gly Cys Glu Lys Pro Gly Asn Glu
 325 330 335
 Ala Arg Gly Ser Gly Glu Ser Gly Ile Gln Asn Ser Glu Thr Ser Pro
 340 345 350
 Gly Met Phe Asn Phe Asp Thr Phe Trp Lys Asn Phe Lys Ser Lys Leu
 355 360 365
 Gly Phe Ile Asn Trp Asp Ala Ile Asn Lys Asp Gln Arg Ser Ser Arg
 370 375 380
 Ile Pro
 385

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<210> 101
 <211> 743
 <212> PRT
 <213> Homo sapiens

<400> 101

Met	Asn	Val	Ser	Trp	Ile	Ser	Leu	Arg	Arg	Arg	Ser	Phe	Arg	Ala	Phe
1				5					10					15	
Gly	Arg	Val	Trp	Thr	Cys	Ser	Gly	Leu	Leu	Gln	Met	Thr	Ser	Ile	Lys
		20						25					30		
Gly	Lys	Leu	Ser	Leu	Val	Trp	Gln	Arg	Leu	Asp	Gly	His	Phe	Cys	Arg
		35					40					45			
Thr	Leu	Glu	Glu	Ser	Val	Tyr	Ser	Ile	Ala	Ile	Ser	Leu	Ala	Gln	Arg
	50					55					60				
Tyr	Ser	Val	Ser	Arg	Trp	Glu	Val	Phe	Met	Thr	His	Leu	Glu	Phe	Leu
	65				70					75					80
Phe	Thr	Asp	Ser	Gly	Leu	Ser	Thr	Leu	Glu	Ile	Glu	Asn	Arg	Ala	Gln
				85					90					95	
Asp	Leu	His	Leu	Phe	Glu	Thr	Leu	Lys	Thr	Asp	Pro	Glu	Ala	Phe	His
			100					105					110		
Gln	His	Met	Val	Lys	Tyr	Ile	Tyr	Pro	Thr	Ile	Gly	Gly	Phe	Asp	His
		115					120					125			
Glu	Arg	Leu	Gln	Tyr	Tyr	Phe	Thr	Leu	Leu	Glu	Asn	Cys	Gly	Cys	Ala
	130					135					140				
Asp	Leu	Gly	Asn	Cys	Ala	Ile	Lys	Pro	Glu	Thr	His	Ile	Arg	Leu	Leu
	145				150					155				160	
Lys	Lys	Phe	Lys	Val	Val	Ala	Ser	Gly	Leu	Asn	Tyr	Lys	Lys	Leu	Thr
			165						170					175	
Asp	Glu	Asn	Met	Ser	Pro	Leu	Glu	Ala	Leu	Glu	Pro	Val	Leu	Ser	Ser
			180					185					190		
Gln	Asn	Ile	Leu	Ser	Ile	Ser	Lys	Leu	Val	Pro	Lys	Ile	Pro	Glu	Lys
		195					200					205			
Asp	Gly	Gln	Met	Leu	Ser	Pro	Ser	Ser	Leu	Tyr	Thr	Ile	Trp	Leu	Gln
	210					215					220				
Lys	Leu	Phe	Trp	Thr	Gly	Asp	Pro	His	Leu	Ile	Lys	Gln	Val	Pro	Gly
	225				230					235				240	
Ser	Ser	Pro	Glu	Trp	Leu	His	Ala	Tyr	Asp	Val	Cys	Met	Lys	Tyr	Phe
			245					250					255		
Asp	Arg	Leu	His	Pro	Gly	Asp	Leu	Ile	Thr	Val	Val	Asp	Ala	Val	Thr
		260					265						270		

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Phe Ser Pro Lys Ala Val Thr Lys Leu Ser Val Glu Ala Arg Lys Glu
 275 280 285
 Met Thr Arg Lys Ala Ile Lys Thr Val Lys His Phe Ile Glu Lys Pro
 290 295 300
 Arg Lys Arg Asn Ser Glu Asp Glu Ala Gln Glu Ala Lys Asp Ser Lys
 305 310 315 320
 Val Thr Tyr Ala Asp Thr Leu Asn His Leu Glu Lys Ser Leu Ala His
 325 330 335
 Leu Glu Thr Leu Ser His Ser Phe Ile Leu Ser Leu Lys Asn Ser Glu
 340 345 350
 Gln Glu Thr Leu Gln Lys Tyr Ser His Leu Tyr Asp Leu Ser Arg Ser
 355 360 365
 Glu Lys Glu Lys Leu His Asp Glu Ala Val Ala Ile Cys Leu Asp Gly
 370 375 380
 Gln Pro Leu Ala Met Ile Gln Gln Leu Leu Glu Val Ala Val Gly Pro
 385 390 395 400
 Leu Asp Ile Ser Pro Lys Asp Ile Val Gln Ser Ala Ile Met Lys Ile
 405 410 415
 Ile Ser Ala Leu Ser Gly Gly Ser Ala Asp Leu Gly Gly Pro Arg Asp
 420 425 430
 Pro Leu Lys Val Leu Glu Gly Val Val Ala Ala Val His Ala Ser Val
 435 440 445
 Asp Lys Gly Glu Glu Leu Val Ser Pro Glu Asp Leu Leu Glu Trp Leu
 450 455 460
 Arg Pro Phe Cys Ala Asp Asp Ala Trp Pro Val Arg Pro Arg Ile His
 465 470 475 480
 Val Leu Gln Ile Leu Gly Gln Ser Phe His Leu Thr Glu Glu Asp Ser
 485 490 495
 Lys Leu Leu Val Phe Phe Arg Thr Glu Ala Ile Leu Lys Ala Ser Trp
 500 505 510
 Pro Gln Arg Gln Val Asp Ile Ala Asp Ile Glu Asn Glu Glu Asn Arg
 515 520 525
 Tyr Cys Leu Phe Met Glu Leu Leu Glu Ser Ser His His Glu Ala Glu
 530 535 540
 Phe Gln His Leu Val Leu Leu Leu Gln Ala Trp Pro Pro Met Lys Ser
 545 550 555 560
 Glu Tyr Val Ile Thr Asn Asn Pro Trp Val Arg Leu Ala Thr Val Met
 565 570 575

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 00510 40205007

Leu Thr Arg Cys Thr Met Glu Asn Lys Glu Gly Leu Gly Asn Glu Val
580 585 590

Leu Lys Met Cys Arg Ser Leu Tyr Asn Thr Lys Gln Met Leu Pro Ala
595 600 605

Glu Gly Val Lys Glu Leu Cys Leu Leu Leu Leu Asn Gln Ser Leu Leu
610 615 620

Leu Pro Ser Leu Lys Leu Leu Leu Glu Ser Arg Asp Glu His Leu His
625 630 635 640

Glu Met Ala Leu Glu Gln Ile Thr Ala Val Thr Thr Val Asn Asp Ser
645 650 655

Asn Cys Asp Gln Glu Leu Leu Ser Leu Leu Leu Asp Ala Lys Leu Leu
660 665 670

Val Lys Cys Val Ser Thr Pro Phe Tyr Pro Arg Ile Val Asp His Leu
675 680 685

Leu Ala Ser Leu Gln Gln Gly Arg Trp Asp Ala Glu Glu Leu Gly Arg
690 695 700

His Leu Arg Glu Ala Gly His Glu Ala Glu Ala Gly Ser Leu Leu Leu
705 710 715 720

Ala Val Arg Gly Thr His Gln Ala Phe Arg Thr Phe Ser Thr Ala Leu
725 730 735

Arg Ala Ala Gln His Trp Val
740

<210> 102

<211> 235

<212> PRT

<213> Homo sapiens

<400> 102

Met Leu Asn Leu Gly Ser Trp Pro Gly Leu Val Ala Ala Ser Leu Phe
1 5 10 15

Leu Leu Lys Gly Val Phe Ser Leu Phe Val Gln Leu Leu Lys Asn Pro
20 25 30

Leu Gln His Pro Arg Asn Arg Ala Thr His Leu Leu Ala Thr Pro Gly
35 40 45

Ala Arg Val Leu Gln Glu His Leu Ser Ile His Pro Val Cys His Gln
50 55 60

Ser Gln Pro Pro Glu Ala Leu Ser Ser Thr Gln His Thr Gly Gln Pro
65 70 75 80

Pro Gly Gln Pro Ser Ala Pro Ser Gln Leu Ser Ala Pro Arg Arg Tyr
85 90 95

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Ser Ser Ser Leu Ser Pro Ile Gln Ala Pro Asn His Pro Pro Pro Gln
 100 105 110
 Pro Pro Thr Gln Ala Thr Pro Leu Met His Thr Lys Pro Asn Ser Gln
 115 120 125
 Gly Pro Pro Asn Pro Met Ala Leu Pro Ser Glu His Gly Leu Glu Gln
 130 135 140
 Pro Ser His Thr Pro Pro Gln Thr Pro Thr Pro Pro Ser Thr Pro Pro
 145 150 155 160
 Leu Gly Lys Gln Asn Pro Ser Leu Pro Ala Pro Gln Thr Leu Ala Gly
 165 170 175
 Gly Asn Pro Glu Thr Ala Gln Pro His Ala Gly Thr Leu Pro Arg Pro
 180 185 190
 Arg Pro Val Pro Lys Pro Arg Asn Arg Pro Ser Val Pro Pro Pro Pro
 195 200 205
 Gln Pro Pro Gly Val His Ser Ala Gly Asp Ser Ser Leu Thr Asn Thr
 210 215 220
 Ala Pro Thr Ala Ser Lys Ile Val Thr Asp Val
 225 230 235
 <210> 103
 <211> 402
 <212> PRT
 <213> Homo sapiens
 <400> 103
 Met Tyr Ser Gly Asn Arg Ser Gly Gly His Gly Tyr Trp Asp Gly Gly
 1 5 10 15
 Gly Ala Ala Gly Ala Glu Gly Pro Ala Pro Ala Gly Thr Leu Ser Pro
 20 25 30
 Ala Pro Leu Phe Ser Pro Gly Thr Tyr Glu Arg Leu Ala Leu Leu Leu
 35 40 45
 Gly Ser Ile Gly Leu Leu Gly Val Gly Asn Asn Leu Leu Val Leu Val
 50 55 60
 Leu Tyr Tyr Lys Phe Gln Arg Leu Arg Thr Pro Thr His Leu Leu Leu
 65 70 75 80
 Val Asn Ile Ser Leu Ser Asp Leu Leu Val Ser Leu Phe Gly Val Thr
 85 90 95
 Phe Thr Phe Val Ser Cys Leu Arg Asn Gly Trp Val Trp Asp Thr Val
 100 105 110
 Gly Cys Val Trp Asp Gly Phe Ser Gly Ser Leu Phe Gly Ile Val Ser
 115 120 125

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Ile Ala Thr Leu Thr Val Leu Ala Tyr Glu Arg Tyr Ile Arg Val Val
 130 135 140
 His Ala Arg Val Ile Asn Phe Ser Trp Ala Trp Arg Ala Ile Thr Tyr
 145 150 155 160
 Ile Trp Leu Tyr Ser Leu Ala Trp Ala Gly Ala Pro Leu Leu Gly Trp
 165 170 175
 Asn Arg Tyr Ile Leu Asp Val His Gly Leu Gly Cys Thr Val Asp Trp
 180 185 190
 Lys Ser Lys Asp Ala Asn Asp Ser Ser Phe Val Leu Phe Leu Phe Leu
 195 200 205
 Gly Cys Leu Val Val Pro Leu Gly Val Ile Ala His Cys Tyr Gly His
 210 215 220
 Ile Leu Tyr Ser Ile Arg Met Leu Arg Cys Val Glu Asp Leu Gln Thr
 225 230 235 240
 Ile Gln Val Ile Lys Ile Leu Lys Tyr Glu Lys Lys Leu Ala Lys Met
 245 250 255
 Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr Ile
 260 265 270
 Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr Pro
 275 280 285
 Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val Tyr
 290 295 300
 Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser Leu
 305 310 315 320
 Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala Lys
 325 330 335
 Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val Met
 340 345 350
 Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Lys Val Thr Phe Asn Ser
 355 360 365
 Ser Ser Ile Ile Phe Ile Ile Thr Ser Asp Glu Ser Leu Ser Val Asp
 370 375 380
 Asp Ser Asp Lys Thr Asn Gly Ser Lys Val Asp Val Ile Gln Val Arg
 385 390 395 400
 Pro Leu

<210> 104
 <211> 101
 <212> PRT

<213> Homo sapiens

<400> 104

Met Lys Gln Arg Leu Arg Gly Gln Gln Gly Phe Gln Leu Asp Val Cys
 1 5 10 15
 Val Ala Cys Thr Leu Leu Phe Leu Leu Leu Thr Val Asn Ser Gly Val
 20 25 30
 Thr Ser Arg Glu Gln Leu Gly Cys Ser Arg Pro Ser Pro Ala Gln Gly
 35 40 45
 Glu Gly Arg Gly Thr Cys Ser Ser Glu Gln Pro Glu Gly Gly Gly Arg
 50 55 60
 Ser Glu Val Val Glu Trp Phe Val Tyr Leu Thr Gly Leu Lys Gly Pro
 65 70 75 80
 Ser Val Phe Val Val Cys Phe Val Ser Cys Phe Ser Asp Arg Ser Ile
 85 90 95
 Thr Thr Asp Leu Leu
 100

<210> 105

<211> 185

<212> PRT

<213> Homo sapiens

<400> 105

Met Lys Phe Thr Ile Val Phe Ala Gly Leu Leu Gly Val Phe Leu Ala
 1 5 10 15
 Pro Ala Leu Ala Asn Tyr Asn Ile Asn Val Asn Asp Asp Asn Asn Asn
 20 25 30
 Ala Gly Ser Gly Gln Gln Ser Val Ser Val Asn Asn Glu His Asn Val
 35 40 45
 Ala Asn Val Asp Asn Asn Asn Gly Trp Asp Ser Trp Asn Ser Ile Trp
 50 55 60
 Asp Tyr Gly Asn Gly Phe Ala Ala Thr Arg Leu Phe Gln Lys Lys Thr
 65 70 75 80
 Cys Ile Val His Lys Met Asn Lys Glu Val Met Pro Ser Ile Gln Ser
 85 90 95
 Leu Asp Ala Leu Val Lys Glu Lys Lys Leu Gln Gly Lys Gly Pro Gly
 100 105 110
 Gly Pro Pro Pro Lys Gly Leu Met Tyr Ser Val Asn Pro Asn Lys Val
 115 120 125
 Asp Asp Leu Ser Lys Phe Gly Lys Asn Ile Ala Asn Met Cys Arg Gly
 130 135 140

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Ile Pro Thr Tyr Met Ala Glu Glu Met Gln Glu Ala Ser Leu Phe Phe
145 150 155 160

Tyr Ser Gly Thr Cys Tyr Thr Thr Ser Val Leu Trp Ile Val Asp Ile
165 170 175

Ser Phe Cys Gly Asp Thr Val Glu Asn
180 185

<210> 106

<211> 231

<212> PRT

<213> Homo sapiens

<400> 106

Met Ser Arg Ala Met Ala Leu Phe Phe Val Leu Cys Trp Ile Gln Gly
1 5 10 15

Tyr Ser Gln Gln Lys Ser Leu Asn Asn Ala Ala Phe Ala Ser Gly Ser
20 25 30

Asn Glu Arg Glu Glu His Leu Ala Lys Ile Phe Asp Glu Ile Leu Leu
35 40 45

Gln Val Phe Pro Lys Phe Pro Tyr Asp Pro Ser Phe Asn Glu Ala Thr
50 55 60

Ala Val Arg Ser Ile Thr Lys Thr Asp Met Arg Lys Gly Thr Ser Ile
65 70 75 80

Ala Trp Asn Ser Pro Lys Pro Glu Tyr Phe Leu Gly Ser Val Asp Lys
85 90 95

Ile Pro Asp Lys Asp His Leu Ser Glu Glu Lys Asn Phe Lys Glu Ser
100 105 110

Cys Leu Phe Asp Arg Asp Leu Arg Glu Gln Leu Thr Thr Ile Asp Lys
115 120 125

Glu Thr Leu Gln Gly Ala Ala Lys Pro Asp Ala His Phe Arg Thr Met
130 135 140

Pro Cys Gly Gln Leu Leu His Phe Leu Gln Arg Asn Thr Ile Ile Ala
145 150 155 160

Thr Val Ser Gly Val Ala Ile Leu Met Ala Ile Val Leu Leu Leu Leu
165 170 175

Gly Leu Ala Ser Tyr Ile Arg Lys Lys Gln Pro Ser Ser Pro Leu Ala
180 185 190

Asn Thr Thr Tyr Asn Ile Phe Ile Met Asp Gly Lys Thr Trp Trp His
195 200 205

Asn Ser Glu Glu Lys Asn Phe Thr Lys Leu Ala Lys Lys Gln Lys Gln
210 215 220

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Leu Lys Ser Ser Ser Cys Val
225 230

<210> 107
<211> 136
<212> PRT
<213> Homo sapiens

<400> 107
Met Ala Ser Leu Gly Leu Leu Leu Leu Leu Leu Thr Ala Leu Pro
1 5 10 15
Pro Leu Trp Ser Ser Ser Leu Pro Gly Leu Asp Thr Ala Glu Ser Lys
20 25 30
Ala Thr Ile Ala Asp Leu Ile Leu Ser Ala Leu Glu Arg Ala Thr Val
35 40 45
Phe Leu Glu Gln Arg Leu Pro Glu Ile Asn Leu Asp Gly Met Val Gly
50 55 60
Val Arg Val Leu Glu Glu Gln Leu Lys Ser Val Arg Glu Lys Trp Ala
65 70 75 80
Gln Glu Pro Leu Leu Gln Pro Leu Ser Leu Arg Val Gly Met Leu Gly
85 90 95
Glu Lys Leu Glu Ala Ala Ile Gln Arg Ser Leu His Tyr Leu Lys Leu
100 105 110
Ser Asp Pro Lys Tyr Leu Arg Gly Arg Thr Ala Ala Ser Pro Ala Ala
115 120 125
Ser Gln Thr Ser Ala Gly Ala Ser
130 135

<210> 108
<211> 606
<212> PRT
<213> Homo sapiens

<400> 108
Met Thr Val Val Gly Asn Pro Arg Ser Trp Ser Cys Gln Trp Leu Pro
1 5 10 15
Ile Leu Ile Leu Leu Leu Gly Thr Gly His Gly Pro Gly Val Glu Gly
20 25 30
Val Thr His Tyr Lys Ala Gly Asp Pro Val Ile Leu Tyr Val Asn Lys
35 40 45
Val Gly Pro Tyr His Asn Pro Gln Glu Thr Tyr His Tyr Tyr Gln Leu
50 55 60
Pro Val Cys Cys Pro Glu Lys Ile Arg His Lys Ser Leu Ser Leu Gly
65 70 75 80

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Glu Val Leu Asp Gly Asp Arg Met Ala Glu Ser Leu Tyr Glu Ile Arg
 85 90 95
 Phe Arg Glu Asn Val Glu Lys Arg Ile Leu Cys His Met Gln Leu Ser
 100 105 110
 Ser Ala Gln Val Glu Gln Leu Arg Gln Ala Ile Glu Glu Leu Tyr Tyr
 115 120 125
 Phe Glu Phe Val Val Asp Asp Leu Pro Ile Arg Gly Phe Val Gly Tyr
 130 135 140
 Met Glu Glu Ser Gly Phe Leu Pro His Ser His Lys Ile Gly Leu Trp
 145 150 155 160
 Thr His Leu Asp Phe His Leu Glu Phe His Gly Asp Arg Ile Ile Phe
 165 170 175
 Ala Asn Val Ser Val Arg Asp Val Lys Pro His Ser Leu Asp Gly Leu
 180 185 190
 Arg Pro Asp Glu Phe Leu Gly Leu Thr His Thr Tyr Ser Val Arg Trp
 195 200 205
 Ser Glu Thr Ser Val Glu Arg Arg Ser Asp Arg Arg Arg Gly Asp Asp
 210 215 220
 Gly Gly Phe Phe Pro Arg Thr Leu Glu Ile His Trp Leu Ser Ile Ile
 225 230 235 240
 Asn Ser Met Val Leu Val Phe Leu Leu Val Gly Phe Val Ala Val Ile
 245 250 255
 Leu Met Arg Val Leu Arg Asn Asp Leu Ala Arg Tyr Asn Leu Asp Glu
 260 265 270
 Glu Thr Thr Ser Ala Gly Ser Gly Asp Asp Phe Asp Gln Gly Asp Asn
 275 280 285
 Gly Trp Lys Ile Ile His Thr Asp Val Phe Arg Phe Pro Pro Tyr Arg
 290 295 300
 Gly Leu Leu Cys Ala Val Leu Gly Val Gly Ala Gln Phe Leu Ala Leu
 305 310 315 320
 Gly Thr Gly Ile Ile Val Met Ala Leu Leu Gly Met Phe Asn Val His
 325 330 335
 Arg His Gly Ala Ile Asn Ser Ala Ala Ile Leu Leu Tyr Ala Leu Thr
 340 345 350
 Cys Cys Ile Ser Gly Tyr Val Ser Ser His Phe Tyr Arg Gln Ile Gly
 355 360 365
 Gly Glu Arg Trp Val Trp Asn Ile Ile Leu Thr Thr Ser Leu Phe Ser
 370 375 380

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Val Pro Phe Phe Leu Thr Trp Ser Val Val Asn Ser Val His Trp Ala
385 390 395 400

Asn Gly Ser Thr Gln Ala Leu Pro Ala Thr Thr Ile Leu Leu Leu Leu
405 410 415

Thr Val Trp Leu Leu Val Gly Phe Pro Leu Thr Val Ile Gly Gly Ile
420 425 430

Phe Gly Lys Asn Asn Ala Ser Pro Phe Asp Ala Pro Cys Arg Thr Lys
435 440 445

Asn Ile Ala Arg Glu Ile Pro Pro Gln Pro Trp Tyr Lys Ser Thr Val
450 455 460

Ile His Met Thr Val Gly Gly Phe Leu Pro Phe Ser Ala Ile Ser Val
465 470 475 480

Glu Leu Tyr Tyr Ile Phe Ala Thr Val Trp Gly Arg Glu Gln Tyr Thr
485 490 495

Leu Tyr Gly Ile Leu Phe Phe Val Phe Ala Ile Leu Leu Ser Val Gly
500 505 510

Ala Cys Ile Ser Ile Ala Leu Thr Tyr Phe Gln Leu Ser Gly Glu Asp
515 520 525

Tyr Arg Trp Trp Trp Arg Ser Val Leu Ser Val Gly Ser Thr Gly Leu
530 535 540

Phe Ile Phe Leu Tyr Ser Val Phe Tyr Tyr Ala Arg Arg Ser Asn Met
545 550 555 560

Ser Gly Ala Val Gln Thr Val Glu Phe Phe Gly Tyr Ser Leu Leu Thr
565 570 575

Gly Tyr Val Phe Phe Leu Met Leu Gly Thr Ile Ser Phe Phe Ser Ser
580 585 590

Leu Lys Phe Ile Arg Tyr Ile Tyr Val Asn Leu Lys Met Asp
595 600 605

<210> 109

<211> 310

<212> PRT

<213> Homo sapiens

<400> 109

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
1 5 10 15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val
20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser
35 40 45

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Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
 50 55 60
 Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe
 65 70 75 80
 Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
 85 90 95
 Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu
 100 105 110
 Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu
 115 120 125
 Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
 130 135 140
 Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys
 145 150 155 160
 Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
 165 170 175
 Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn
 180 185 190
 Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
 195 200 205
 Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
 210 215 220
 Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
 225 230 235 240
 Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
 245 250 255
 Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
 260 265 270
 Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
 275 280 285
 Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
 290 295 300
 Lys Ser Ser Phe Val Ile
 305 310

<210> 110

<211> 247

<212> PRT

<213> Homo sapiens

<400> 110

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Met Glu Lys Cys Leu Gln Asp Phe Cys Leu Pro Phe Leu Arg Ile Thr
1 5 10 15

Ser Leu Leu Gln His His Leu Phe Gly Glu Asp Leu Pro Ser Cys Gln
20 25 30

Glu Glu Glu Glu Phe Ser Val Leu Ala Ser Cys Leu Gly Leu Leu Pro
35 40 45

Thr Phe Tyr Gln Thr Glu His Pro Phe Ile Ser Ala Ser Cys Leu Asp
50 55 60

Trp Pro Val Pro Ala Phe Asp Ile Ile Thr Gln Trp Cys Phe Glu Ile
65 70 75 80

Lys Ser Phe Thr Glu Arg His Ala Glu Gln Gly Lys Ala Leu Leu Ile
85 90 95

Gln Glu Ser Lys Trp Lys Leu Pro His Leu Leu Gln Leu Pro Glu Asn
100 105 110

Tyr Asn Thr Ile Phe Gln Tyr Tyr His Arg Lys Thr Cys Ser Val Cys
115 120 125

Thr Lys Val Pro Lys Asp Pro Ala Val Cys Leu Val Cys Gly Thr Phe
130 135 140

Val Cys Leu Lys Gly Leu Cys Cys Lys Gln Gln Ser Tyr Cys Glu Cys
145 150 155 160

Val Leu His Ser Gln Asn Cys Gly Ala Gly Thr Gly Ile Phe Leu Leu
165 170 175

Ile Asn Ala Ser Val Ile Ile Ile Ile Arg Gly His Arg Phe Cys Leu
180 185 190

Trp Gly Ser Val Tyr Leu Asp Ala His Gly Glu Glu Asp Arg Asp Leu
195 200 205

Arg Arg Gly Lys Pro Leu Tyr Ile Cys Lys Glu Arg Tyr Lys Val Leu
210 215 220

Glu Gln Gln Trp Ile Ser His Thr Phe Asp His Ile Asn Lys Arg Trp
225 230 235 240

Gly Pro His Tyr Asn Gly Leu
245

<210> 111
<211> 559
<212> PRT
<213> Homo sapiens

<400> 111
Met Val Leu Leu His Trp Cys Leu Leu Trp Leu Leu Phe Pro Leu Ser
1 5 10 15

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Ser Arg Thr Gln Lys Leu Pro Thr Arg Asp Glu Glu Leu Phe Gln Met
 20 25 30
 Gln Ile Arg Asp Lys Ala Phe Phe His Asp Ser Ser Val Ile Pro Asp
 35 40 45
 Gly Ala Glu Ile Ser Ser Tyr Leu Phe Arg Asp Thr Pro Lys Arg Tyr
 50 55 60
 Phe Phe Val Val Glu Glu Asp Asn Thr Pro Leu Ser Val Thr Val Thr
 65 70 75 80
 Pro Cys Asp Ala Pro Leu Glu Trp Lys Leu Ser Leu Gln Glu Leu Pro
 85 90 95
 Glu Asp Arg Ser Gly Glu Gly Ser Gly Asp Leu Glu Pro Leu Glu Gln
 100 105 110
 Gln Lys Gln Gln Ile Ile Asn Glu Glu Gly Thr Glu Leu Phe Ser Tyr
 115 120 125
 Lys Gly Asn Asp Val Glu Tyr Phe Ile Ser Ser Ser Ser Pro Ser Gly
 130 135 140
 Leu Tyr Gln Leu Asp Leu Leu Ser Thr Glu Lys Asp Thr His Phe Lys
 145 150 155 160
 Val Tyr Ala Thr Thr Thr Pro Glu Ser Asp Gln Pro Tyr Pro Glu Leu
 165 170 175
 Pro Tyr Asp Pro Arg Val Asp Val Thr Ser Leu Gly Arg Thr Thr Val
 180 185 190
 Thr Leu Ala Trp Lys Pro Ser Pro Thr Ala Ser Leu Leu Lys Gln Pro
 195 200 205
 Ile Gln Tyr Cys Val Val Ile Asn Lys Glu His Asn Phe Lys Ser Leu
 210 215 220
 Cys Ala Val Glu Ala Lys Leu Ser Ala Asp Asp Ala Phe Met Met Ala
 225 230 235 240
 Pro Lys Pro Gly Leu Asp Phe Ser Pro Phe Asp Phe Ala His Phe Gly
 245 250 255
 Phe Pro Ser Asp Asn Ser Gly Lys Glu Arg Ser Phe Gln Ala Lys Pro
 260 265 270
 Ser Pro Lys Leu Gly Arg His Val Tyr Ser Arg Pro Lys Val Asp Ile
 275 280 285
 Gln Lys Ile Cys Ile Gly Asn Lys Asn Ile Phe Thr Val Ser Asp Leu
 290 295 300
 Lys Pro Asp Thr Gln Tyr Tyr Phe Asp Val Phe Val Val Asn Ile Asn
 305 310 315 320
 Ser Asn Met Ser Thr Ala Tyr Val Gly Thr Phe Ala Arg Thr Lys Glu

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325 330 335
 Glu Ala Lys Gln Lys Thr Val Glu Leu Lys Asp Gly Lys Ile Thr Asp
 340 345 350
 Val Phe Val Lys Arg Lys Gly Ala Lys Phe Leu Arg Phe Ala Pro Val
 355 360 365
 Ser Ser His Gln Lys Val Thr Phe Phe Ile His Ser Cys Leu Asp Ala
 370 375 380
 Val Gln Ile Gln Val Arg Arg Asp Gly Lys Leu Leu Leu Ser Gln Asn
 385 390 395 400
 Val Glu Gly Ile Gln Gln Phe Gln Leu Arg Gly Lys Pro Lys Ala Lys
 405 410 415
 Tyr Leu Val Arg Leu Lys Gly Asn Lys Lys Gly Ala Ser Met Leu Lys
 420 425 430
 Ile Leu Ala Thr Thr Arg Pro Thr Lys Gln Ser Phe Pro Ser Leu Pro
 435 440 445
 Glu Asp Thr Arg Ile Lys Ala Phe Asp Lys Leu Arg Thr Cys Ser Ser
 450 455 460
 Ala Thr Val Ala Trp Leu Gly Thr Gln Glu Arg Asn Lys Phe Cys Ile
 465 470 475 480
 Tyr Lys Lys Glu Val Asp Asp Asn Tyr Asn Glu Asp Gln Lys Lys Arg
 485 490 495
 Glu Gln Asn Gln Cys Leu Gly Pro Asp Ile Arg Lys Lys Ser Glu Lys
 500 505 510
 Val Leu Cys Lys Tyr Phe His Ser Gln Asn Leu Gln Lys Ala Val Thr
 515 520 525
 Thr Glu Thr Ile Lys Gly Leu Gln Pro Gly Lys Ser Leu Pro Ala Gly
 530 535 540
 Cys Leu Cys His Arg Thr Trp Gly Ala Leu Cys Lys Val Ser Glu
 545 550 555

<210> 112

<211> 71

<212> PRT

<213> Homo sapiens

<400> 112

Met Ser Pro Ser His Ser Pro Val Ser Cys Phe Lys Leu Arg Val Leu
 1 5 10 15

Val Phe Pro Leu Pro Leu Phe Leu Gly Thr Ala Leu Cys Ser Val Trp
 20 25 30

Asp Pro Arg Ala Arg Pro Leu Gly Leu Val Ala Ala Ala Arg Pro Leu

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35

40

45

Gly Pro Ser Thr Cys Pro Ser Pro Arg Phe Pro Ala Ser Ser Ala Gly
 50 55 60

Thr Leu Lys Leu Arg Ala Arg
 65 70

<210> 113

<211> 158

<212> PRT

<213> Homo sapiens

<400> 113

Met Ala Leu Glu Val Leu Met Leu Leu Ala Val Leu Ile Trp Thr Gly
 1 5 10 15

Ala Glu Asn Leu His Val Lys Ile Ser Cys Ser Leu Asp Trp Leu Met
 20 25 30

Val Ser Val Ile Pro Val Ala Glu Ser Arg Asn Leu Tyr Ile Phe Ala
 35 40 45

Asp Glu Leu His Leu Gly Met Gly Cys Pro Ala Asn Arg Ile His Thr
 50 55 60

Tyr Val Tyr Glu Phe Ile Tyr Leu Val Arg Asp Cys Gly Ile Arg Thr
 65 70 75 80

Arg Val Val Ser Glu Glu Thr Leu Leu Phe Gln Thr Glu Leu Tyr Phe
 85 90 95

Thr Pro Arg Asn Ile Asp His Asp Pro Gln Glu Ile His Leu Glu Cys
 100 105 110

Ser Thr Ser Arg Lys Ser Val Trp Leu Thr Pro Val Ser Thr Glu Asn
 115 120 125

Glu Ile Lys Leu Asp Pro Ser Pro Phe Ile Ala Asp Phe Gln Thr Thr
 130 135 140

Ala Glu Glu Leu Gly Leu Leu Ser Ser Ser Pro Asn Leu Leu
 145 150 155

<210> 114

<211> 170

<212> PRT

<213> Homo sapiens

<400> 114

Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg
 1 5 10 15

Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp
 20 25 30

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Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys
 35 40 45

Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile
 50 55 60

Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr
 65 70 75 80

Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln
 85 90 95

Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly
 100 105 110

Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln
 115 120 125

Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu
 130 135 140

Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His
 145 150 155 160

Ala Val His Pro Thr Gly Thr Lys Ala Leu
 165 170

<210> 115

<211> 354

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 115

Met Ala Gly Pro Arg Leu Leu Phe Leu Xaa Ala Leu Ala Leu Glu Leu
 1 5 10 15

Leu Gly Arg Ala Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr
 20 25 30

Ala Thr Ala Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala
 35 40 45

Leu Leu Ser Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly
 50 55 60

Ser Leu Met Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro
 65 70 75 80

Leu Glu Met Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu
 85 90 95

Lys Gln Leu Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn Val Phe

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100 105 110
 Leu His Leu Leu Pro Glu Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro
 115 120 125
 Gly Gly Glu Gly Gln Ser Leu Gln Gln Gln Gln Leu Gly Leu Trp
 130 135 140
 Val Ile Ala Gly Ile Leu Thr Phe Leu Ala Leu Glu Lys Met Phe Leu
 145 150 155 160
 Asp Ser Lys Glu Glu Gly Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr
 165 170 175
 Ala Ala Ala Ala Ala Leu Asn Gly Gly His Cys Leu Ala Gln Pro Ala
 180 185 190
 Ala Glu Pro Gly Leu Gly Ala Val Val Arg Ser Ile Lys Val Ser Gly
 195 200 205
 Tyr Leu Asn Leu Leu Ala Asn Thr Ile Asp Asn Phe Thr His Gly Leu
 210 215 220
 Ala Val Ala Ala Ser Phe Leu Val Ser Lys Lys Ile Gly Leu Leu Thr
 225 230 235 240
 Thr Met Ala Ile Leu Leu His Glu Ile Pro His Glu Val Gly Asp Phe
 245 250 255
 Ala Ile Leu Leu Arg Ala Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu
 260 265 270
 Gln Leu Ser Thr Ala Leu Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile
 275 280 285
 Cys Thr Gln Ser Pro Lys Gly Val Glu Glu Thr Ala Ala Trp Val Leu
 290 295 300
 Pro Phe Thr Ser Gly Gly Phe Leu Tyr Ile Ala Leu Val Asn Val Leu
 305 310 315 320
 Pro Asp Leu Leu Glu Glu Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu
 325 330 335
 Leu Leu Leu Cys Ala Gly Ile Val Val Met Val Leu Phe Ser Leu Phe
 340 345 350

Val Asp

<210> 116
 <211> 145
 <212> PRT
 <213> Homo sapiens

<400> 116
 Met Ser Gln Ala Trp Val Pro Gly Leu Ala Pro Thr Leu Leu Phe Ser

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1 5 10 15

Leu Leu Ala Gly Pro Gln Lys Ile Ala Ala Lys Cys Gly Leu Ile Leu
20 25 30

Ala Cys Pro Lys Gly Phe Lys Cys Cys Gly Asp Ser Cys Cys Gln Glu
35 40 45

Asn Glu Leu Phe Pro Gly Pro Val Arg Ile Phe Val Ile Ile Phe Leu
50 55 60

Val Ile Leu Ser Val Phe Cys Ile Cys Gly Leu Ala Lys Cys Phe Cys
65 70 75 80

Arg Asn Cys Arg Glu Pro Glu Pro Asp Ser Pro Val Asp Cys Arg Gly
85 90 95

Pro Leu Glu Leu Pro Ser Ile Ile Pro Pro Glu Arg Val Ile Leu Lys
100 105 110

Pro Ser Leu Gly Pro Thr Pro Thr Glu Pro Pro Pro Pro Tyr Ser Phe
115 120 125

Arg Pro Glu Glu Tyr Thr Gly Asp Gln Arg Gly Ile Asp Asn Pro Ala
130 135 140

Phe
145

<210> 117
<211> 79
<212> PRT
<213> Homo sapiens

<400> 117

Met Leu Arg Leu Thr Gln Thr Phe Phe Phe Ile Ser Gln Thr Leu Leu
1 5 10 15

Asp Trp Phe Leu Ala Ala Ala Leu Ala Leu Pro Asn Leu Cys Ser Pro
20 25 30

Leu Ala Ser Asn Phe Lys Ser Arg Gln Ile Ser Ser Val Pro Ile Gln
35 40 45

Pro Ser Gln Gly Thr Ser Arg Val Ala Leu Gln Ile Trp Cys Gly Ser
50 55 60

Cys Arg Met Arg Met Ser Ser Ser Thr Ile His Ile Leu Ala Leu
65 70 75

<210> 118
<211> 82
<212> PRT
<213> Homo sapiens

<400> 118

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Met Leu Leu Leu Gln Ser Leu Phe Phe Pro Met Ser Trp Gly Ser Gly
 1 5 10 15
 Gly Gly Gly Lys Gly Arg Asp Asp Leu Pro Arg Glu Lys Pro Thr Thr
 20 25 30
 Cys Pro Val Phe Asp Arg Leu Phe Asp Ile Phe Ala Lys Ile Pro Leu
 35 40 45
 Val Glu Ser Gln Ala Ser Cys Ala Arg Ile Gly Ile Ala Ala Ser His
 50 55 60
 Trp Arg Leu Asp Cys Ser Val Asp Gly Met Gln Ala Asp Cys Leu Ser
 65 70 75 80
 Leu Ile

<210> 119
 <211> 347
 <212> PRT
 <213> Homo sapiens

<400> 119
 Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val
 1 5 10 15
 Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp
 20 25 30
 Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys
 35 40 45
 Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu
 50 55 60
 Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly
 65 70 75 80
 Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Ala Ile Ser Ala
 85 90 95
 Leu Lys Val Gly Ala Asp Leu Ser His Val Phe Cys Ala Ser Ala Ala
 100 105 110
 Ala Pro Val Ile Lys Ala Tyr Ser Pro Glu Leu Ile Val His Pro Val
 115 120 125
 Leu Asp Ser Pro Asn Ala Val His Glu Val Glu Lys Trp Leu Pro Arg
 130 135 140
 Leu His Ala Leu Val Val Gly Pro Gly Leu Gly Arg Asp Asp Ala Leu
 145 150 155 160
 Leu Arg Asn Val Gln Gly Ile Leu Glu Val Ser Lys Ala Arg Asp Ile
 165 170 175

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Val Gly Ala Ala Phe Ser Lys Leu Phe Glu Thr
340 345

 $\langle 400 \rangle$ 120

Leu Leu Pro Leu Leu Thr Gly Leu Phe Ala Val Ser Arg Leu Ile Tyr
85 90 95

Trp Leu Thr Phe Ala Val Gly Arg Ser Phe Arg Gly Phe Gly Tyr Gly
100 105 110

Leu Thr Phe Leu Pro Leu Leu Ser Met Leu Met Trp Asn Leu Tyr Tyr
115 120 125

Met Phe Val Val Glu Pro Glu Arg Met Leu Thr Ala Thr Glu Ser Arg
130 135 140

Leu Asp Tyr Pro Asp His Ala Arg Ser Ala Ser Asp Tyr Arg Pro Arg
145 150 155 160

Pro Trp Gly

<210> 121

<211> 258

<212> PRT

<213> Homo sapiens

<400> 121

Met Tyr Ile Trp Phe Ile Ile Phe Phe Ile Gln Pro His Lys Glu Glu
1 5 10 15

Arg Phe Leu Phe Pro Val Tyr Pro Leu Ile Cys Leu Cys Gly Ala Val
20 25 30

Ala Leu Ser Ala Leu Gln Lys Cys Tyr His Phe Val Phe Gln Arg Tyr
35 40 45

Arg Leu Glu His Tyr Thr Val Thr Ser Asn Trp Leu Ala Leu Gly Thr
50 55 60

Val Phe Leu Phe Gly Leu Leu Ser Phe Ser Arg Ser Val Ala Leu Phe
65 70 75 80

Arg Gly Tyr His Gly Pro Leu Asp Leu Tyr Pro Glu Phe Tyr Arg Ile
85 90 95

Ala Thr Asp Pro Thr Ile His Thr Val Pro Glu Gly Arg Pro Val Asn
100 105 110

Val Cys Val Gly Lys Glu Trp Tyr Arg Phe Pro Ser Ser Phe Leu Leu
115 120 125

Pro Asp Asn Trp Gln Leu Gln Phe Ile Pro Ser Glu Phe Arg Gly Gln
130 135 140

Leu Pro Lys Pro Phe Ala Glu Gly Pro Leu Ala Thr Arg Ile Val Pro
145 150 155 160

Thr Asp Met Asn Asp Gln Asn Leu Glu Glu Pro Ser Arg Tyr Ile Asp
165 170 175

Ile Ser Lys Cys His Tyr Leu Val Asp Leu Asp Thr Met Arg Glu Thr
180 185 190

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Pro Arg Glu Pro Lys Tyr Ser Ser Asn Lys Glu Glu Trp Ile Ser Leu
 195 200 205

Ala Tyr Arg Pro Phe Leu Asp Ala Ser Arg Ser Ser Lys Leu Leu Arg
 210 215 220

Ala Phe Tyr Val Pro Phe Leu Ser Asp Gln Tyr Thr Val Tyr Val Asn
 225 230 235 240

Tyr Thr Ile Leu Lys Pro Arg Lys Ala Lys Gln Ile Arg Lys Lys Ser
 245 250 255

Gly Gly

<210> 122

<211> 96

<212> PRT

<213> Homo sapiens

<400> 122

Met Ala Arg Ala Cys Val Phe Gln Leu Ser Leu Trp Arg Lys Leu Pro
 1 5 10 15

Val Gly Ile Asn Leu Ser Pro Ala Ile Leu Ser Leu Ser Leu Gly Cys
 20 25 30

Leu Gly Leu Gly Phe Leu Leu Leu Leu Glu Arg Met Thr Thr Asp Ser
 35 40 45

Gly Ile Arg Gln Arg Ser Arg His Asp Leu Leu Gly Phe Cys Gly Cys
 50 55 60

Gln His Cys Arg Ser Phe Trp Arg Leu Arg Glu Ala Leu Glu Gly Ile
 65 70 75 80

Gly Thr Ser Cys Cys Arg Pro Pro Gly Arg Ala Gly Leu Phe Ile Phe
 85 90 95

<210> 123

<211> 72

<212> PRT

<213> Homo sapiens

<400> 123

Met Arg His Thr Cys Ile Val Asn Ile Ala Ala Ser Leu Leu Val Ala
 1 5 10 15

Asn Thr Trp Phe Ile Val Val Ala Ala Ile Gln Asp Asn Arg Tyr Ile
 20 25 30

Leu Cys Lys Thr Ala Cys Val Ala Ala Thr Phe Phe Ile His Phe Phe
 35 40 45

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Tyr Leu Ser Val Phe Phe Trp Met Leu Thr Leu Gly Pro His Ala Val
50 55 60

Leu Ser Pro Gly Phe His Ser Ala
65 70

<210> 124
<211> 275
<212> PRT
<213> Homo sapiens

<400> 124
Met Thr Ile Thr Ser Phe Tyr Ala Val Cys Phe Tyr Leu Leu Met Leu
1 5 10 15

Val Met Val Glu Gly Phe Gly Gly Lys Glu Ala Val Leu Arg Thr Leu
20 25 30

Arg Asp Thr Pro Met Met Val His Thr Gly Pro Cys Cys Cys Cys Cys
35 40 45

Pro Cys Cys Pro Arg Leu Leu Leu Thr Arg Lys Lys Leu Gln Leu Leu
50 55 60

Met Leu Gly Pro Phe Gln Tyr Ala Phe Leu Lys Ile Thr Leu Thr Leu
65 70 75 80

Val Gly Leu Phe Leu Ile Pro Asp Gly Ile Tyr Asp Pro Ala Asp Ile
85 90 95

Ser Glu Gly Ser Thr Ala Leu Trp Ile Asn Thr Phe Leu Gly Val Ser
100 105 110

Thr Leu Leu Ala Leu Trp Thr Leu Gly Ile Ile Ser Arg Gln Ala Arg
115 120 125

Leu His Leu Gly Glu Gln Asn Met Gly Ala Lys Phe Ala Leu Phe Gln
130 135 140

Val Leu Leu Ile Leu Thr Ala Leu Gln Pro Ser Ile Phe Ser Val Leu
145 150 155 160

Ala Asn Gly Gly Gln Ile Ala Cys Ser Pro Pro Tyr Ser Ser Lys Thr
165 170 175

Arg Ser Gln Val Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu
180 185 190

Met Thr Val Leu Thr Arg Met Tyr Tyr Arg Arg Lys Asp His Lys Val
195 200 205

Gly Tyr Glu Thr Phe Ser Ser Pro Asp Leu Asp Leu Asn Ser Lys Pro
210 215 220

Lys Val Asp Gly Leu Asp Asn Glu Arg Met Leu Tyr Ser Leu Glu Tyr
225 230 235 240

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Lys Ile Pro Leu Leu Ser Leu Asn Leu Asp Gln Met Gly Ser Ile Pro
245 250 255

Pro Cys Gln His Lys Leu Ala Asp Thr Phe Asp Ser Thr Asp Glu Gly
260 265 270

Glu Gln Cys
275

<210> 125

<211> 627

<212> PRT

<213> Homo sapiens

<400> 125

Met Glu Ala Arg Val Val His Ala Leu Gln Lys Arg Gln Val Ser Leu
1 5 10 15

Leu Cys Val Phe Leu Gly Val Ser Trp Ala Gly Ala Glu Pro Leu Arg
20 25 30

Tyr Phe Val Ala Glu Glu Thr Glu Arg Gly Thr Phe Leu Ala Asn Leu
35 40 45

Ala Ile Asp Leu Gly Leu Gly Val Glu Glu Leu Ser Ala Arg Gly Cys
50 55 60

Arg Ile Val Ser Asp Glu Thr Ile Gly Phe Leu Leu Asn Pro Leu
65 70 75 80

Thr Gly Asp Leu Leu Leu Asn Glu Lys Leu Asp Arg Glu Glu Leu Cys
85 90 95

Gly Pro Thr Glu Pro Cys Val Leu Pro Phe Gln Leu Leu Leu Glu Lys
100 105 110

Pro Phe Gln Ile Phe Arg Ala Glu Leu Trp Val Arg Asp Ile Asn Asp
115 120 125

His Ser Pro Val Phe Leu Asp Arg Glu Ile Thr Leu Asn Ile Leu Glu
130 135 140

Ser Thr Thr Pro Gly Ala Thr Phe Leu Leu Glu Ser Ala His Asp Ser
145 150 155 160

Asp Val Gly Ile Asn Asn Leu Arg Asn Tyr Thr Ile Ser Ser Asn Val
165 170 175

Tyr Phe His Ile Asn Val His Asp Asn Gly Glu Gly Asn Val Tyr Ser
180 185 190

Glu Leu Val Leu Asp Lys Val Leu Asp Arg Glu Glu Val Pro Glu Leu
195 200 205

Arg Leu Thr Leu Thr Gly Leu Asp Gly Gly Ser Pro Pro Arg Ser Gly
210 215 220

10050704.013807

Thr Thr Leu Ile Arg Ile Leu Val Leu Asp Ile Asn Asp Asn Val Pro
 225 230 235 240
 Glu Phe Val Glu Ser Leu Tyr Lys Val Gln Val Pro Glu Asn Ser Pro
 245 250 255
 Val Gly Ser Leu Val Val Thr Val Ser Ala Arg Asp Leu Asp Thr Gly
 260 265 270
 Ser Asn Gly Glu Ile Val Tyr Ala Phe Phe Tyr Ala Thr Glu Arg Thr
 275 280 285
 Leu Lys Thr Phe Arg Ile Asn Ser Thr Ser Gly Asn Leu His Leu Lys
 290 295 300
 Ala Glu Leu Asn Tyr Glu Ala Ile Gln Thr Tyr Thr Leu Thr Ile Gln
 305 310 315 320
 Ala Lys Asp Gly Gly Gly Leu Ser Gly Lys Cys Thr Val Val Val His
 325 330 335
 Val Thr Asp Ile Asn Asp Asn Pro Pro Glu Leu Leu Met Ser Ser Leu
 340 345 350
 Thr Ser Pro Ile Pro Glu Asn Ser Pro Glu Thr Val Val Ala Val Phe
 355 360 365
 Arg Ile Arg Asp Arg Asp Ser Gly Asn Asn Ala Lys Met Val Cys Ser
 370 375 380
 Ile Gln Asp His Leu Pro Phe Val Leu Lys Pro Ser Val Glu Asn Phe
 385 390 395 400
 Tyr Thr Leu Val Thr Glu Arg Ala Leu Asp Arg Glu Glu Arg Thr Glu
 405 410 415
 Tyr Asn Ile Thr Ile Thr Val Thr Asp Leu Gly Thr Pro Arg Leu Lys
 420 425 430
 Thr Gln His Asn Leu Thr Val Thr Val Ser Asp Val Asn Asp Asn Ala
 435 440 445
 Pro Thr Phe Ser Gln Thr Thr Tyr Thr Leu Arg Val Arg Glu Asn Asn
 450 455 460
 Ser Pro Ala Leu His Ile Gly Ser Val Ser Ala Thr Asp Arg Asp Ser
 465 470 475 480
 Gly Ala Asn Ala Gln Val Thr Tyr Ser Leu Leu Pro Pro His Asp Pro
 485 490 495
 Gln Leu Pro Leu Gly Ser Leu Val Ser Ile Asn Ala Asp Asn Gly Gln
 500 505 510
 Leu Phe Ala Leu Arg Ser Leu Asp Phe Glu Ala Leu Gln Ala Phe Glu
 515 520 525

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Phe Arg Val Gly Ala Ala Asp Arg Gly Ser Pro Ala Leu Ser Ser Gln
530 535 540

Ala Leu Val Arg Val Leu Val Ala Asp Ala Asn Asp Asn Ala Pro Phe
545 550 555 560

Val Leu Tyr Pro Leu Gln Asn Gly Ser Ala Pro Cys Thr Glu Leu Val
565 570 575

Pro Arg Ala Ala Glu Ala Gly Tyr Leu Val Ala Lys Val Val Ala Val
580 585 590

Asp Gly Asp Ser Gly Gln Asn Ala Trp Leu Ser Tyr Gln Leu Leu Lys
595 600 605

Ala Thr Glu Pro Gly Leu Phe Gly Val Trp Ala His Asn Gly Glu Val
610 615 620

Arg Thr Ala
625

<210> 126

<211> 51

<212> PRT

<213> Homo sapiens

<400> 126

Met Arg Ala Val His Pro Ala Leu Gly Leu Cys Leu Leu Pro Ala Pro
1 5 10 15

Ser Cys Gly Lys Val Leu Val Ala Gly Ala Leu Glu Gly Val Pro Ala
20 25 30

Gly Val Ala Glu Ala Glu Ala Asn Ile Ala Gln Val Pro Pro Ile Ala
35 40 45

Arg Gln Thr
50

<210> 127

<211> 74

<212> PRT

<213> Homo sapiens

<400> 127

Met Phe Thr Gly Leu Leu Ile Tyr Leu Leu Val Ser Ser Ile Leu Ile
1 5 10 15

Ser Leu Ala Asp Arg Pro Phe Ser Ser Ile Arg Cys Leu Thr Phe Trp
20 25 30

Val Gln Phe Ile Arg Leu Cys Tyr Ile Arg Asn Thr Ser Leu Leu Pro
35 40 45

Met Thr Cys Val Ala Tyr Ile Phe Phe Leu Phe Tyr Phe Phe Thr Ile
50 55 60

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Gln Lys Phe Leu Val Lys Ile Ile Asn Phe
65 70

<210> 128

<211> 257

<212> PRT

<213> Homo sapiens

<400> 128

Met Ala Ser Lys Ile Gly Ser Arg Arg Trp Met Leu Gln Leu Ile Met
1 5 10 15

Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys Phe
20 25 30

Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys Pro
35 40 45

Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val Leu
50 55 60

Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala Leu
65 70 75 80

Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile Gly
85 90 95

Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser Arg
100 105 110

Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala Gly
115 120 125

Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr Gly
130 135 140

Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu Gln
145 150 155 160

His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly Gly
165 170 175

Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala Leu
180 185 190

Ala Phe Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu Ala
195 200 205

Val Leu Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala Tyr
210 215 220

Trp His Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu Leu
225 230 235 240

Gly Glu Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr Asp
245 250 255

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Gly

<210> 129
 <211> 348
 <212> PRT
 <213> Homo sapiens

<400> 129

Met	Lys	Glu	Asp	Cys	Leu	Pro	Ser	Ser	His	Val	Pro	Ile	Ser	Asp	Ser	1	5	10	15
Lys	Ser	Ile	Gln	Lys	Ser	Glu	Leu	Leu	Gly	Leu	Leu	Lys	Thr	Tyr	Asn	20	25	30	
Cys	Tyr	His	Glu	Gly	Lys	Ser	Phe	Gln	Leu	Arg	His	Arg	Glu	Glu	Glu	35	40	45	
Gly	Thr	Leu	Ile	Ile	Glu	Gly	Leu	Leu	Asn	Ile	Ala	Trp	Gly	Leu	Arg	50	55	60	
Arg	Pro	Ile	Arg	Leu	Gln	Met	Gln	Asp	Asp	Arg	Glu	Gln	Val	His	Leu	65	70	75	80
Pro	Ser	Thr	Ser	Trp	Met	Pro	Arg	Arg	Pro	Ser	Cys	Pro	Leu	Gly	Cys	85	90	95	
Trp	Ser	Leu	Leu	Leu	Gly	Leu	Ser	Ser	Leu	Ser	Leu	Pro	Ala	Ala	Ile	100	105	110	
Ser	Ala	Leu	Gln	Leu	Ser	Val	Phe	Arg	Lys	Glu	Pro	Ser	Pro	Gln	Asn	115	120	125	
Gly	Asn	Ile	Thr	Ala	Gln	Gly	Pro	Ser	Ile	Gln	Pro	Val	His	Lys	Ala	130	135	140	
Glu	Ser	Ser	Thr	Asp	Ser	Ser	Gly	Pro	Leu	Glu	Glu	Ala	Glu	Glu	Ala	145	150	155	160
Pro	Gln	Leu	Met	Arg	Thr	Lys	Ser	Asp	Ala	Ser	Cys	Met	Ser	Gln	Arg	165	170	175	
Arg	Pro	Lys	Cys	Arg	Ala	Pro	Gly	Glu	Ala	Gln	Arg	Ile	Arg	Arg	His	180	185	190	
Arg	Phe	Ser	Ile	Asn	Gly	His	Phe	Tyr	Asn	His	Lys	Thr	Ser	Val	Phe	195	200	205	
Thr	Pro	Ala	Tyr	Gly	Ser	Val	Thr	Asn	Val	Arg	Val	Asn	Ser	Thr	Met	210	215	220	
Thr	Thr	Leu	Gln	Val	Leu	Thr	Leu	Leu	Leu	Asn	Lys	Phe	Arg	Val	Glu	225	230	235	240
Asp	Gly	Pro	Ser	Glu	Phe	Ala	Leu	Tyr	Ile	Val	His	Glu	Ser	Gly	Glu	245	250	255	

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Arg Thr Lys Leu Lys Asp Cys Glu Tyr Pro Leu Ile Ser Arg Ile Leu
260 265 270

His Gly Pro Cys Glu Lys Ile Ala Arg Ile Phe Leu Met Glu Ala Asp
275 280 285

Leu Gly Val Glu Val Pro His Glu Val Ala Gln Tyr Ile Lys Phe Glu
290 295 300

Met Pro Val Leu Asp Ser Phe Val Glu Lys Leu Lys Glu Glu Glu Glu
305 310 315 320

Arg Glu Ile Ile Lys Leu Thr Met Lys Phe Gln Ala Leu Arg Leu Thr
325 330 335

Met Leu Gln Arg Leu Glu Gln Leu Val Glu Ala Lys
340 345

<210> 130

<211> 95

<212> PRT

<213> Homo sapiens

<400> 130

Met Ser Ala Trp Leu Val Ser Leu Cys Ala Trp Leu Ser Leu Leu Arg
1 5 10 15

Ala Thr Val Thr Ser Gln Val Ser Ser Ser Pro Ala Pro Val Val Ala
20 25 30

Ser Gly Thr Leu Ser Pro Cys His Pro Pro Gly Ser Pro Ala Ala Ser
35 40 45

Ala Cys Leu Leu Ser Pro Gln Ser Pro Cys Arg Arg Ala Ser Lys Trp
50 55 60

Arg Ser His Met Thr Gly Val Ala Pro Ser Asn Arg Gly Ser Ser Cys
65 70 75 80

Glu Ser Ser Gly Ser Gln Gly Lys Pro Ser Gln Arg Ala Gly Ala
85 90 95

<210> 131

<211> 60

<212> PRT

<213> Homo sapiens

<400> 131

Met His Ile Pro Leu Trp Pro Asn Trp Leu Leu Phe Val Cys Lys Leu
1 5 10 15

Leu Phe Leu Ser His Pro Ile Leu Leu Ala Cys Val Lys Cys Lys Ser
20 25 30

Gln Val Phe Pro Ala Gly Ser Asn Val Phe Leu Ser Leu Asn Gln Gly

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35

40

45

Pro Thr Gly Cys Leu Leu Leu Gln Ile Lys Phe Tyr
 50 55 60

<210> 132
 <211> 267
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (172)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (175)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 132
 Met Ser Glu Ile Arg Gly Lys Pro Ile Glu Ser Ser Cys Met Tyr Gly
 1 5 10 15

Thr Cys Cys Leu Trp Gly Lys Thr Tyr Ser Ile Gly Phe Leu Arg Phe
 20 25 30

Cys Lys Gln Ala Thr Leu Gln Phe Cys Val Val Lys Pro Leu Met Ala
 35 40 45

Val Ser Thr Val Val Leu Gln Ala Phe Gly Lys Tyr Arg Asp Gly Asp
 50 55 60

Phe Asp Val Thr Ser Gly Tyr Leu Tyr Val Thr Ile Ile Tyr Asn Ile
 65 70 75 80

Ser Val Ser Leu Ala Leu Tyr Ala Leu Phe Leu Phe Tyr Phe Ala Thr
 85 90 95

Arg Glu Leu Leu Ser Pro Tyr Ser Pro Val Leu Lys Phe Phe Met Val
 100 105 110

Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu Ala Ile
 115 120 125

Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg Val Ser
 130 135 140

Val Gly Glu Gly Thr Val Ala Ala Gly Tyr Gln Asp Phe Ile Ile Cys
 145 150 155 160

Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg Xaa Ala Phe Xaa Tyr
 165 170 175

Lys Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys Ala Pro
 180 185 190

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Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro His Asp
195 200 205

Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln Gln Tyr
210 215 220

Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly Gly Ala
225 230 235 240

His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp Asn Glu
245 250 255

Lys Thr Leu Leu Leu Ser Ser Asp Asp Glu Phe
260 265

<210> 133
<211> 115
<212> PRT
<213> Homo sapiens

<400> 133
Met Ser Asp Phe Ser Asn Leu Ser Leu Leu Phe Phe Leu Leu Val Ser
1 5 10 15

Leu Ala Lys Gly Leu Ser Ile Leu Phe Ile Tyr Ser Glu Asn His Leu
20 25 30

Leu Val Leu Phe Ile Phe Leu Ile Phe Lys Glu Thr Thr Arg Pro Ala
35 40 45

Ala Phe Cys Val Ser Val Glu Ser Cys Tyr Gly Ser Gly Ser Cys Leu
50 55 60

Ser Ser Leu Ser Val Glu Trp Pro Gly Gln Cys Met Trp Arg Leu Leu
65 70 75 80

Arg Leu Pro Phe Thr Arg Val Ala Leu Pro Leu Pro Val Trp His Phe
85 90 95

His Val Thr Phe Leu Leu Lys Ser Trp Phe Thr Ala Lys Val Leu Ala
100 105 110

Phe Ile Gln
115

<210> 134
<211> 84
<212> PRT
<213> Homo sapiens

<400> 134
Met Gly Ile Trp Val Leu Ala Leu Trp Val Gly Cys Leu Cys Ser Ser
1 5 10 15

Thr Gly Leu Pro Val Val Leu Thr Asn Val Glu Leu Gly Leu Arg Cys
20 25 30

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Glu Arg Thr Ala Met Ala Cys Cys Asn Gly Ser Ser Leu Val His Pro
35 40 45

Arg Cys Ser Leu Ala Ser Val Cys Ile Ser Ala Pro Pro Ser Pro Ser
50 55 60

Val Pro Trp Lys Lys Val Arg Pro Arg Gly Gln Ile Ala Ser Thr Val
65 70 75 80

Val Trp Thr His

<210> 135

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 135

Met Arg Val Thr Xaa Ala Thr Xaa Ala Leu Leu Ala Xaa Ile Cys
1 5 10 15

Ser Val Gln Leu Gly Asp Ala Cys Leu Asp Ile Asp Lys Leu Leu Ala
20 25 30

Asn Val Val Phe Asp Val Ser Gln Asp Leu Leu Lys Glu Glu Leu Ala
35 40 45

Arg Tyr Asn Pro Ser Pro Leu Thr Glu Glu Ser Phe Leu Asn Val Gln
50 55 60

Gln Cys Phe Ala Asn Val Ser Val Thr Glu Arg Phe Ala His Ser Val
65 70 75 80

Val Ile Lys Lys Ile Leu Gln Ser Asn Asp Cys Ile Glu Ala Ala Phe
85 90 95

<210> 136

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<211> 43
 <212> PRT
 <213> Homo sapiens

<400> 136

Met Leu Val Ser Ser Pro Phe Ser Ser Pro Val Ser Phe Trp Ala Val
 1 5 10 15

Phe Val Cys Leu Leu Leu Tyr Lys Ile Arg Thr Val Asn Tyr Leu
 20 25 30

Leu Cys Arg Ser Pro Ala Phe His Ser Ala Leu
 35 40

<210> 137
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 137

Met Glu Pro Cys Leu Ala Val Ala Leu Ser Val Tyr Ile Trp Leu Arg
 1 5 10 15

Ala Thr Ser Ala Lys Leu Leu Pro Asp Leu Asn Glu Ser Ala Glu Ile
 20 25 30

Ile Gly Pro Ser Ala Ala Glu Lys Lys
 35 40

<210> 138
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 138

Met Lys Cys Phe Phe Leu Phe Val Val Ile Leu Ile Ile Met Lys Ser
 1 5 10 15

Asn Leu Ser Asp Ile Ile Ile Ala Thr Tyr Thr Tyr Cys Ile Pro Asp
 20 25 30

Tyr Phe Phe His Thr Phe Ile Phe Asn Leu Ser Val Tyr Leu Asn Ser
 35 40 45

Lys Phe Ile Ser
 50

<210> 139
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 139

Met Ile Val Tyr Tyr Leu Ala Phe Phe Gly Leu Leu Asp Leu Cys Leu
 1 5 10 15

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Gly Glu Gly Asn Phe Ser Ala Arg Glu Ala Val Trp Val Ile Cys Phe
 20 25 30

Phe Ala Arg Asp Tyr Ser Pro Lys Tyr Tyr Arg
 35 40

<210> 140
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 140
 Met Ile Leu Gly Leu Leu Asn Leu Leu Arg Ile Val Val Phe Leu Ile
 1 5 10 15

Ala Trp Ser Ile Leu Glu Tyr Val Thr His Gly Asp Glu Lys Asp Ile
 20 25 30

Tyr Thr Met Leu Val Ser Asp Glu Glu Phe His Ile Cys Leu Leu Glu
 35 40 45

<210> 141
 <211> 410
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (168)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 141
 Met Asn Pro Ala Val Arg Gln Arg Cys Leu Leu Phe Cys Phe Gln Gln
 1 5 10 15

Lys Leu Ile Leu Ser His Phe Phe Leu Leu Gln Val Pro Gln Trp Cys
 20 25 30

Ala Glu Tyr Cys Leu Ser Ile His Tyr Gln His Gly Gly Val Ile Cys
 35 40 45

Thr Gln Val His Lys Gln Thr Val Val Gln Leu Ala Leu Arg Val Ala
 50 55 60

Asp Glu Met Asp Val Asn Ile Gly His Glu Val Gly Tyr Xaa Ile Pro
 65 70 75 80

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Phe	Glu	Asn	Cys	Cys	Thr	Asn	Glu	Thr	Ile	Leu	Arg	Tyr	Cys	Thr	Asp	
				85						90					95	
Asp	Met	Leu	Gln	Arg	Glu	Met	Met	Ser	Asn	Pro	Phe	Leu	Gly	Ser	Tyr	
			100					105					110			
Gly	Val	Ile	Ile	Leu	Asp	Asp	Ile	His	Glu	Arg	Ser	Ile	Ala	Thr	Asp	
		115					120					125				
Val	Leu	Leu	Gly	Leu	Leu	Lys	Asp	Val	Leu	Leu	Ala	Arg	Pro	Glu	Leu	
	130					135					140					
Lys	Leu	Ile	Ile	Asn	Ser	Ser	Pro	His	Leu	Ile	Ser	Lys	Leu	Asn	Ser	
145				150						155					160	
Tyr	Tyr	Gly	Asn	Val	Pro	Val	Xaa	Glu	Val	Lys	Asn	Lys	His	Pro	Val	
			165						170					175		
Glu	Val	Val	Tyr	Leu	Ser	Glu	Ala	Gln	Lys	Asp	Ser	Phe	Glu	Ser	Ile	
			180					185					190			
Leu	Arg	Leu	Ile	Phe	Glu	Ile	His	His	Ser	Gly	Glu	Lys	Gly	Asp	Ile	
	195						200					205				
Val	Val	Phe	Leu	Ala	Cys	Glu	Gln	Asp	Ile	Glu	Lys	Val	Cys	Glu	Thr	
	210					215					220					
Val	Tyr	Gln	Gly	Ser	Asn	Leu	Asn	Pro	Asp	Leu	Gly	Glu	Leu	Val	Val	
225					230					235					240	
Val	Pro	Leu	Tyr	Pro	Lys	Glu	Lys	Cys	Ser	Leu	Phe	Lys	Pro	Leu	Asp	
			245						250					255		
Glu	Thr	Glu	Lys	Arg	Cys	Gln	Val	Tyr	Gln	Arg	Arg	Val	Val	Leu	Thr	
			260					265					270			
Thr	Ser	Ser	Gly	Glu	Phe	Leu	Ile	Trp	Ser	Asn	Ser	Val	Arg	Phe	Val	
		275					280					285				
Ile	Asp	Val	Gly	Val	Glu	Arg	Arg	Lys	Val	Tyr	Asn	Pro	Arg	Ile	Arg	
	290					295					300					
Ala	Asn	Ser	Leu	Val	Met	Gln	Pro	Ile	Ser	Gln	Ser	Gln	Ala	Glu	Ile	
305					310					315					320	
Arg	Lys	Gln	Ile	Leu	Gly	Ser	Ser	Ser	Ser	Gly	Lys	Phe	Phe	Cys	Leu	
			325						330					335		
Tyr	Thr	Glu	Glu	Phe	Ala	Ser	Lys	Asp	Met	Thr	Pro	Leu	Lys	Pro	Ala	
		340						345					350			
Glu	Met	Gln	Glu	Ala	Asn	Leu	Thr	Ser	Met	Val	Leu	Phe	Met	Lys	Arg	
		355					360					365				
Ile	Asp	Ile	Ala	Gly	Leu	Gly	His	Cys	Asp	Phe	Met	Asn	Arg	Pro	Gly	
	370					375					380					
Ser	Leu	Met	Leu	Pro	Cys	Gln	Pro	Gly	Ile	Arg	Leu	Arg	Phe	Thr	Phe	

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<400> 144
Met Val Ser Phe Gly Phe Trp Phe Leu Cys Leu Phe Phe Gly Val Trp
  1             5             10             15

Lys Asn Met His Phe Tyr Arg Ala Arg Lys Leu Val Ser Arg Lys Gly
      20             25             30

Ser Pro Glu Lys Ala Ala Asp Gly Pro Cys Pro Cys Trp Val Phe Leu
      35             40             45

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Phe Phe Gly Thr Val Arg Gly Asn Gly Phe
50 55

<210> 145
<211> 103
<212> PRT
<213> Homo sapiens

<400> 145
Met Ala His Ile Gly Ala Cys Val Ser Phe Val Phe Phe Leu Leu Gln
1 5 10 15
Gly Ala Val Ser Val Trp Thr Phe Cys Phe Arg Glu Leu Glu Arg Arg
20 25 30
Val Ser Ala Glu Gly Gly Glu Gln Gly Gln Arg Pro His Trp Pro Pro
35 40 45
Pro Ala Ser Gln Ser Glu Thr Leu Cys Leu Val Thr Lys Val Pro Pro
50 55 60
Lys Cys Ser Ser Phe Trp Val Ile Gln Ala Lys Tyr Leu Gly Phe Pro
65 70 75 80
Leu Ser Ser Phe Pro Ser Lys Pro Gln Leu Ser Phe Lys Ile Gly Asp
85 90 95
Ile Ser His Pro Leu Pro Leu
100

<210> 146
<211> 44
<212> PRT
<213> Homo sapiens

<400> 146
Met Met Pro Leu Lys Leu His Ala Lys Cys Leu Tyr Leu Leu Lys Cys
1 5 10 15
Val Phe Phe Val Gly Val Gly Gly Met Thr Phe Tyr Gln Ile Leu Thr
20 25 30
Gly Phe Lys Ile Gln Lys Ser Leu Asp Leu Val Gly
35 40

<210> 147
<211> 87
<212> PRT
<213> Homo sapiens

<400> 147
Met Asp Leu Thr Val Glu Gly Phe Gln Ser Trp Met Trp Arg Gly Leu
1 5 10 15

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Thr Phe Leu Leu Pro Phe Leu Phe Phe Gly His Phe Trp Gln Leu Phe
 20 25 30

Asn Ala Leu Thr Leu Phe Asn Leu Ala Gln Asp Pro Gln Cys Lys Glu
 35 40 45

Trp Gln Val Leu Met Cys Gly Phe Pro Phe Leu Leu Leu Phe Leu Gly
 50 55 60

Asn Phe Phe Thr Thr Leu Arg Val Val His His Lys Phe His Ser Gln
 65 70 75 80

Arg His Gly Ser Lys Lys Asp
 85

<210> 148
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 148
 Met Ala Ser Pro Ser Ile Ile Leu Leu Leu Ile Phe Phe Phe Phe Phe
 1 5 10 15

Phe Phe Ser Val Cys Ser Val Ser Gln Tyr Met Phe Glu Asn Glu Cys
 20 25 30

Glu Ser Met Ser Arg Arg Arg Gly Arg Gly Leu Gly Arg Ser Arg Leu
 35 40 45

Lys Val Glu Gln Gly Pro Asp Ala Asp Leu His Pro Arg Thr Leu Gly
 50 55 60

Ser
 65

<210> 149
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 149
 Met Thr Ala Trp Ile Leu Leu Pro Val Ser Leu Ser Ala Phe Ser Ile
 1 5 10 15

Thr Gly Ile Trp Thr Val Tyr Ala Met Ala Val Met Asn His His Val
 20 25 30

Cys Pro Val Glu Asn Trp Ser Tyr Asn Glu Ser Cys Pro Pro Asp Pro
 35 40 45

Ala Glu Gln Gly Gly Pro Lys Thr Cys Cys Thr Leu Asp Asp Val Pro
 50 55 60

Leu Ile Ser Gly Pro Asp Leu Pro Pro Ala Leu Arg Ala Ala Pro Gly
 65 70 75 80

Ala Glu Ser Ala Leu Leu Gly
85

<210> 150
<211> 56
<212> PRT
<213> Homo sapiens

<400> 150
Met Lys Ile Pro Leu His Val Val Phe Leu Leu Ile Ser Leu Thr Phe
1 5 10 15
Leu Phe Thr Thr Leu Pro Thr Ala His Ser Ala Pro Ser Ser Pro Ala
20 25 30
Ser Leu His Ile Leu Arg Leu Arg Gly His Leu Met Cys Val Phe Pro
35 40 45
Leu Lys Met Met Pro Thr Leu Ile
50 55

<210> 151
<211> 45
<212> PRT
<213> Homo sapiens

<400> 151
Met Val Gln Trp Lys Asn Trp Pro Glu Ser Leu Glu Val Trp Val Leu
1 5 10 15
Val Leu Ala Val Pro Leu Thr His Cys Asp Leu Gly Ile Leu Cys Cys
20 25 30
Glu Asp Ile Ser Gln Val Leu His Val Ser Gln Gln Ile
35 40 45

<210> 152
<211> 52
<212> PRT
<213> Homo sapiens

<400> 152
Met Asp Ser Cys Leu Phe Leu Arg Asp Phe Cys Trp Lys Met Arg Met
1 5 10 15
Leu Thr Ile Leu Pro Leu Gly Thr Leu Phe Pro Leu Leu Thr Leu Leu
20 25 30
Leu Leu Pro Leu Glu Val Pro Ser Val Ser Cys Gly Val Pro Phe Ala
35 40 45
Val Trp Asp Leu
50

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<210> 153
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 153
 Met Ala Leu Trp Val Thr Cys Ile Leu Ser Leu Cys Thr Trp Phe Ser
 1 5 10 15
 Cys Leu Tyr Gly Ala Asp Ser Leu Ala Asn Lys Cys Leu Ser Ala Gly
 20 25 30
 Ala Thr Arg Lys Ala Phe Pro Phe Cys Val Leu Phe Arg Asp Leu Glu
 35 40 45
 Val Gly Leu Gly Phe Glu Gly Phe Val Thr His Leu Ala Cys Lys Leu
 50 55 60
 Phe Cys Tyr Cys Glu Leu Ser Asp Ser Ala Leu Ser Leu Gly His Glu
 65 70 75 80

<210> 154
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 154
 Met Asn Ile Pro Trp Leu Tyr Phe Val Asn Ser Phe Leu Ile Ala Thr
 1 5 10 15
 Val Tyr Trp Phe Asn Cys His Lys Leu Asn Leu Lys Asp Ile Gly Leu
 20 25 30
 Pro Leu Asp Pro Phe Val Asn Trp Lys Cys Cys Phe Ile Pro Leu Thr
 35 40 45
 Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro Ile Ser Ile Met Ile Cys
 50 55 60

<210> 155
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 155
 Met Ser Phe Asp Ala Glu Lys Phe Leu Ile Leu Lys Phe Ile Leu Gln
 1 5 10 15
 Phe Phe Leu Leu Leu Tyr Val Leu Phe Leu Val Leu Tyr Leu Arg Ile

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20 25 30
 Cys Cys His Thr Gln Gly His Glu Asp Leu Pro Val Cys Tyr Leu Leu
 35 40 45

Arg Val Leu
 50

<210> 156
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 156
 Met Ala Lys Arg Ser Ser Ser Leu Ser Ser Ser Lys Arg Leu Val Phe
 1 5 10 15

Phe Thr Ala Leu Ala Ser Trp Leu Trp Arg Val Pro Glu Ser Leu Gly
 20 25 30

Ser Pro Leu Asp Leu Leu Ser Asp Ala Lys Trp Val Cys Glu Ala Gly
 35 40 45

Ile Phe His Trp Ser Ser Ser Ser Leu Leu Asn Asn Arg Ala Asp Ala
 50 55 60

Phe Phe Leu Glu Ser Ser Glu Ala Phe Ala Phe Ser Ser Leu
 65 70 75

<210> 157
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 157
 Met Lys Met Asn Lys Leu Phe Trp Ile Arg Ile Leu Lys Leu Leu Leu
 1 5 10 15

Gln Ala Leu Ser Gln Cys Lys Leu Leu Ile Lys Gly Gln Val Ala Val
 20 25 30

Pro Lys Asp Leu Ile Met Asp Ser Glu Ile Ala Lys Val Thr Asn
 35 40 45

<210> 158
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 158
 Met Asn Leu Leu His Cys Leu Tyr Met Ile Asn Ile Ile Ile Tyr Ile
 1 5 10 15

Phe Cys Ile Lys Leu Ile Trp Leu His Leu Ser Cys Ile Leu Ser His
 20 25 30

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Ile Ser Phe Ile Ser Ser Met Asp Met Ser Arg Ser Leu Tyr Trp Ser
 35 40 45

Pro Val Cys Ala Val
 50

<210> 159
 <211> 262
 <212> PRT
 <213> Homo sapiens

<400> 159
 Met Arg Leu Arg Leu Arg Leu Leu Ala Leu Leu Leu Leu Leu Ala
 1 5 10 15

Pro Pro Ala Arg Ala Pro Lys Pro Ser Ala Gln Asp Val Ser Leu Gly
 20 25 30

Val Asp Trp Leu Thr Arg Tyr Gly Tyr Leu Pro Pro Pro His Pro Ala
 35 40 45

Gln Ala Gln Leu Gln Ser Pro Glu Lys Leu Arg Asp Ala Ile Lys Val
 50 55 60

Met Gln Arg Phe Ala Gly Leu Pro Glu Thr Gly Arg Met Asp Pro Gly
 65 70 75 80

Thr Val Ala Thr Met Arg Lys Pro Arg Cys Ser Leu Pro Asp Val Leu
 85 90 95

Gly Val Ala Gly Leu Val Arg Arg Gly Arg Arg Tyr Ala Leu Ser Gly
 100 105 110

Ser Val Trp Lys Lys Arg Thr Leu Thr Trp Arg Val Arg Ser Phe Pro
 115 120 125

Gln Ser Ser Gln Leu Ser Gln Glu Thr Val Arg Val Leu Met Ser Tyr
 130 135 140

Ala Leu Met Ala Trp Gly Met Glu Ser Gly Leu Thr Phe His Glu Val
 145 150 155 160

Asp Ser Pro Gln Gly Gln Glu Pro Asp Ile Leu Ile Asp Phe Ala Arg
 165 170 175

Ala Phe His Gln Asp Ser Tyr Pro Phe Asp Gly Leu Gly Gly Thr Leu
 180 185 190

Ala His Ala Phe Phe Pro Gly Glu His Pro Ile Ser Gly Asp Thr His
 195 200 205

Phe Asp Asp Glu Glu Thr Trp Thr Phe Gly Ser Lys Asp Gly Glu Gly
 210 215 220

Thr Asp Leu Phe Ala Val Ala Val His Glu Phe Gly His Ala Leu Gly
 225 230 235 240

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Thr Pro Ala Ala Cys Leu Gln Ser Lys Leu Pro Ile Thr His Arg Arg

100

105

110

Ser Pro Leu Arg Arg Pro Arg His
115 120

<210> 162
<211> 121
<212> PRT
<213> Homo sapiens

<400> 162
Met Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr
1 5 10 15

Ile Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr
20 25 30

Pro Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val
35 40 45

Tyr Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser
50 55 60

Leu Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala
65 70 75 80

Lys Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val
85 90 95

Met Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Ser Asp Phe Gln Leu
100 105 110

Phe Phe His His Phe Tyr His His Gln
115 120

<210> 163
<211> 310
<212> PRT
<213> Homo sapiens

<400> 163
Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
1 5 10 15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val
20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser
35 40 45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
50 55 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe
65 70 75 80

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Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
85 90 95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu
100 105 110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu
115 120 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
130 135 140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys
145 150 155 160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
165 170 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn
180 185 190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
210 215 220

Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
225 230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
245 250 255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
260 265 270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
275 280 285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
290 295 300

Lys Ser Ser Phe Val Ile
305 310

<210> 164

<211> 310

<212> PRT

<213> Homo sapiens

<400> 164

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
1 5 10 15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val
20 25 30

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Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser
 35 40 45
 Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
 50 55 60
 Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe
 65 70 75 80
 Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
 85 90 95
 Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu
 100 105 110
 Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu
 115 120 125
 Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
 130 135 140
 Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys
 145 150 155 160
 Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
 165 170 175
 Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn
 180 185 190
 Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
 195 200 205
 Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
 210 215 220
 Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
 225 230 235 240
 Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
 245 250 255
 Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
 260 265 270
 Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
 275 280 285
 Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
 290 295 300
 Lys Ser Ser Phe Val Ile
 305 310

<210> 165

<211> 170

<212> PRT

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<213> Homo sapiens

<400> 165

Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg
 1 5 10 15

Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp
 20 25 30

Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys
 35 40 45

Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile
 50 55 60

Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr
 65 70 75 80

Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln
 85 90 95

Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly
 100 105 110

Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln
 115 120 125

Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu
 130 135 140

Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His
 145 150 155 160

Ala Val His Pro Thr Gly Thr Lys Ala Leu
 165 170

<210> 166

<211> 114

<212> PRT

<213> Homo sapiens

<400> 166

Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val
 1 5 10 15

Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp
 20 25 30

Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys
 35 40 45

Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu
 50 55 60

Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly
 65 70 75 80

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Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Glu Ser Gln Leu
 85 90 95

Ser Lys Trp Ala Gln Thr Cys Pro Thr Cys Ser Val Pro Val Arg Pro
 100 105 110

His Leu

<210> 167

<211> 114

<212> PRT

<213> Homo sapiens

<400> 167

Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val
 1 5 10 15

Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp
 20 25 30

Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys
 35 40 45

Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu
 50 55 60

Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly
 65 70 75 80

Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Glu Ser Gln Leu
 85 90 95

Ser Lys Trp Ala Gln Thr Cys Pro Thr Cys Ser Val Pro Val Arg Pro
 100 105 110

His Leu

<210> 168

<211> 56

<212> PRT

<213> Homo sapiens

<400> 168

Met Ala Arg Ala Cys Val Phe Gln Leu Ser Leu Trp Arg Lys Leu Pro
 1 5 10 15

Val Gly Ile Asn Leu Ser Pro Ala Ile Leu Ser Leu Ser Leu Gly Cys
 20 25 30

Leu Gly Leu Gly Phe Leu Leu Leu Leu Glu Arg Met Thr Thr Asp Ser
 35 40 45

Gly Ile Arg Gln Arg Arg Gln Thr
 50 55

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<210> 169
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 169
 Met Arg Ala Val His Pro Ala Leu Gly Leu Cys Leu Leu Pro Ala Pro
 1 5 10 15
 Ser Cys Gly Lys Val Leu Val Ala Gly Ala Leu Glu Gly Val Pro Ala
 20 25 30
 Gly Val Ala Glu Ala Glu Ala Asn Ile Ala Gln Val Pro Pro Ile Ala
 35 40 45
 Arg Gln Thr
 50

<210> 170
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 170
 Met Leu Pro Ala Leu Arg Gly Leu Leu Phe Val Thr Trp Val Phe Pro
 1 5 10 15
 Leu Glu Asp Gln Glu Ala Ala Ala Phe Pro Gly Glu Val Asp Pro Pro
 20 25 30
 Ser Pro Phe Gly Pro Cys Thr Ala Glu Gly Pro Ala Ala Leu Pro Ala
 35 40 45
 Arg Val Trp Ser Val Lys Gln Gly Leu Arg Pro Phe Ser Cys Ser Asp
 50 55 60
 Ala Pro Gln Gly Asp Ser Arg Glu Leu Ala Lys Pro Pro Gly Leu Pro
 65 70 75 80
 Pro Val Arg Gly Ala Leu Val Thr Trp Pro Pro Pro Gln Pro Thr Gly
 85 90 95
 Leu Ser Arg Leu Arg Cys His Pro His Gly Thr Gly Gly Asn His Ser
 100 105 110
 Ile Arg Cys Arg Arg Cys Arg Pro
 115 120

<210> 171
 <211> 263
 <212> PRT
 <213> Homo sapiens

<400> 171

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Met Pro Arg Arg Pro Ser Cys Pro Leu Gly Cys Trp Ser Leu Leu Leu
 1 5 10 15
 Gly Leu Ser Ser Leu Ser Leu Pro Ala Ala Ile Ser Ala Leu Gln Leu
 20 25 30
 Ser Val Phe Arg Lys Glu Pro Ser Pro Gln Asn Gly Asn Ile Thr Ala
 35 40 45
 Gln Gly Pro Ser Ile Gln Pro Val His Lys Ala Glu Ser Ser Thr Asp
 50 55 60
 Ser Ser Gly Pro Leu Glu Glu Ala Glu Glu Ala Pro Gln Leu Met Arg
 65 70 75 80
 Thr Lys Ser Asp Ala Ser Cys Met Ser Gln Arg Arg Pro Lys Cys Arg
 85 90 95
 Ala Pro Gly Glu Ala Gln Arg Ile Arg Arg His Arg Phe Ser Ile Asn
 100 105 110
 Gly His Phe Tyr Asn His Lys Thr Ser Val Phe Thr Pro Ala Tyr Gly
 115 120 125
 Ser Val Thr Asn Val Arg Val Asn Ser Thr Met Thr Thr Leu Gln Val
 130 135 140
 Leu Thr Leu Leu Leu Asn Lys Phe Arg Val Glu Asp Gly Pro Ser Glu
 145 150 155 160
 Phe Ala Leu Tyr Ile Val His Glu Ser Gly Glu Arg Thr Lys Leu Lys
 165 170 175
 Asp Cys Glu Tyr Pro Leu Ile Ser Arg Ile Leu His Gly Pro Cys Glu
 180 185 190
 Lys Ile Ala Arg Ile Phe Leu Met Glu Ala Asp Leu Gly Val Glu Val
 195 200 205
 Pro His Glu Val Ala Gln Tyr Ile Lys Phe Glu Met Pro Val Leu Asp
 210 215 220
 Ser Phe Val Glu Lys Leu Lys Glu Glu Glu Glu Arg Glu Ile Ile Lys
 225 230 235 240
 Leu Thr Met Lys Phe Gln Ala Leu Arg Leu Thr Met Leu Gln Arg Leu
 245 250 255
 Glu Gln Leu Val Glu Ala Lys
 260

<210> 172

<211> 157

<212> PRT

<213> Homo sapiens

<400> 172

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 20050704 1050704

Met Val Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu
1 5 10 15

Ala Ile Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg
20 25 30

Val Ser Val Gly Glu Gly Thr Val Ala Ala Gly Tyr His Asp Phe Ile
35 40 45

Ile Cys Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg His Pro Phe
50 55 60

Thr Tyr Asn Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys
65 70 75 80

Ala Pro Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro
85 90 95

His Asp Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln
100 105 110

Gln Tyr Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly
115 120 125

Gly Ala His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp
130 135 140

Asn Glu Lys Thr Leu Leu Leu Ser Ser Asp Asp Glu Phe
145 150 155

<210> 173

<211> 71

<212> PRT

<213> Homo sapiens

<400> 173

Glu Ser Ala Pro Pro Trp Leu Pro Ile Cys Pro Thr Arg Ser Leu Gly
1 5 10 15

Leu Leu Val Gln Leu Leu Ala Leu Ala Gly Ser Cys Ser Ala Gly Pro
20 25 30

Arg Ala Leu Gly Gln Ala Ser Gly Val Val Arg Thr Thr Lys Pro Leu
35 40 45

Leu Ser Pro Ser Thr Pro Leu Asp Leu Gly Pro Pro Glu Pro Pro Ala
50 55 60

Gly Trp Ala Tyr Thr Ser Ser
65 70

<210> 174

<211> 90

<212> PRT

<213> Homo sapiens

1050704 011802

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 174
 Met Gly Ile Trp Val Leu Ala Leu Trp Val Gly Cys Leu Cys Phe Leu
 1 5 10 15
 Tyr Arg Pro Ala Cys Gly Thr Asp Gln Cys Gly Ala Trp Ser Lys Val
 20 25 30
 Arg Arg Thr Ala Met Ala Xaa Ala Thr Gly Ala Ala Xaa Ser Thr Pro
 35 40 45
 Xaa Ala Xaa Trp Leu Leu Ser Val Ser His Thr Thr Leu Xaa Leu Xaa
 50 55 60
 Ala Met Glu Lys Gly Glu Ala Gln Arg Ala Asn Cys Gln His Ser Cys
 65 70 75 80
 Val Asp Thr Leu Gly Pro Gln His Gln Pro
 85 90

<210> 175
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 175
 Met Glu Asn Phe Ile Lys Val Gln Leu Arg Asp Gly Asp Ser Asn Cys
 1 5 10 15

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Glu Trp Ser Val Leu Tyr Val Ile Ile Ala Thr Phe Val Ile Val Val
20 25 30

Ala Leu Gly Ile Leu Ser Trp Thr Val Ile Cys Cys Cys Lys Arg Gln
35 40 45

Lys Gly Lys Pro Lys Arg Lys Ser Lys Tyr Lys Ile Leu Asp Ala Thr
50 55 60

Asp Gln Glu Ser Leu Glu Leu Lys Pro Thr Ser Arg Ala Gly Lys Glu
65 70 75 80

Lys Arg Met Ser Leu Ser Gly Leu Asn Gln Ser Ser Trp Ile Leu Glu
85 90 95

Met Lys Asn Gln Gln Glu Thr Pro Gly Ile Lys Gln Lys Gly Leu Leu
100 105 110

Leu Ser Ser Ser Leu Met His Ser Glu Ser Glu Leu Asp Ser Asp Asp
115 120 125

Ala Ile Phe Thr Trp Pro Asp Arg Glu Lys Gly Lys Leu Leu His Gly
130 135 140

Gln Asn Gly Ser Val Pro Asn Gly Arg Pro Leu
145 150 155

<210> 176

<211> 102

<212> PRT

<213> Homo sapiens

<400> 176

Met Asn Pro Ala Val Arg Gln Arg Cys Leu Leu Phe Cys Phe Gln Gln
1 5 10 15

Lys Leu Ile Leu Ser His Phe Phe Leu Leu Gln Val Pro Gln Trp Cys
20 25 30

Ala Glu Tyr Cys Leu Ser Ile His Tyr Gln His Gly Gly Val Ile Cys
35 40 45

Thr Gln Val His Lys Gln Thr Val Val Gln Leu Ala Leu Arg Val Ala
50 55 60

Asp Glu Met Asp Val Asn Ile Gly His Glu Val Gly Tyr Val Ile Pro
65 70 75 80

Phe Glu Asn Cys Cys Thr Asn Glu Thr Ile Leu Arg Leu Val Cys Gly
85 90 95

Val Gln Ser Ala Pro Cys
100

<210> 177

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<211> 58
 <212> PRT
 <213> Homo sapiens

<400> 177

Met Val Ser Phe Gly Phe Trp Phe Leu Cys Leu Phe Phe Gly Val Trp
 1 5 10 15

Lys Asn Met His Phe Tyr Arg Ala Arg Lys Leu Val Ser Arg Lys Gly
 20 25 30

Ser Pro Glu Lys Ala Ala Asp Gly Pro Cys Pro Cys Trp Val Phe Leu
 35 40 45

Phe Phe Gly Thr Val Arg Gly Asn Gly Phe
 50 55

<210> 178
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 178

Met Val Gln Trp Lys Asn Trp Pro Glu Ser Leu Glu Val Trp Val Leu
 1 5 10 15

Val Leu Ala Val Pro Leu Thr His Cys Asp Leu Gly Ile Leu Cys Cys
 20 25 30

Glu Asp Ile Ser Gln Val Leu His Val Ser Gln Gln Ile
 35 40 45

<210> 179
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 179

Met Val His Ile Asn Arg Ala Leu Lys Leu Ile Ile Arg Leu Phe Leu
 1 5 10 15

Val Glu Asp Leu Val Asp Ser Leu Lys Leu Ala Val Phe Met Trp Leu
 20 25 30

Met Thr Tyr Val Gly Ala Val Phe Asn Gly Ile Thr Leu Leu Ile Leu
 35 40 45

Ala Glu Leu Leu Ile Phe Ser Val Pro Ile Val Tyr Glu Lys Tyr Lys
 50 55 60

Thr Gln Ile Asp His Tyr Val Gly Ile Ala Arg Asp Gln Thr Lys Ser
 65 70 75 80

Ile Val Glu Lys Ile Gln Ala Lys Leu Pro Gly Ile Ala Lys Lys Lys
 85 90 95

00310 40205004

Ala Glu

<210> 180

<211> 392

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 180

Met Ala Pro Trp Pro Pro Lys Gly Leu Val Pro Ala Val Leu Trp Gly
 1 5 10 15

Leu Ser Leu Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser
 20 25 30

Pro Pro Pro Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr
 35 40 45

Cys Arg Gly Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile
 50 55 60

Arg Asp Asn Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu
 65 70 75 80

Ser Lys Tyr Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly
 85 90 95

Val Cys Ser Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser
 100 105 110

Glu Glu Leu Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro
 115 120 125

Asp Leu Phe Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro
 130 135 140

Ala Gly Thr Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu
 145 150 155 160

Arg Pro Cys Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly
 165 170 175

Gly Ser Gly His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys
 180 185 190

Gly Gln Cys Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His
 195 200 205

Leu Val Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro
 210 215 220

Glu Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His

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 20810 40205001

۱۰. $\frac{1}{x^2} = x^{-2}$ $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$ $\frac{d}{dx} \frac{1}{x^2} = -\frac{2}{x^3}$

100					105					110						
Val	Glu	Ser	Trp	Trp	Phe	His	Lys	Gln	Gln	Glu	Ala	Pro	Asp	Leu	Phe	
115					120					125						
Gln	Trp	Leu	Cys	Ser	Asp	Ser	Leu	Lys	Leu	Cys	Cys	Pro	Ala	Gly	Thr	
130					135					140						
Phe	Gly	Pro	Ser	Cys	Leu	Pro	Cys	Pro	Gly	Gly	Thr	Glu	Arg	Pro	Cys	
145					150					155					160	
Gly	Gly	Tyr	Gly	Gln	Cys	Glu	Gly	Glu	Gly	Thr	Arg	Gly	Gly	Ser	Gly	
165					170					175						
His	Cys	Asp	Cys	Gln	Ala	Gly	Tyr	Gly	Gly	Glu	Ala	Cys	Gly	Gln	Cys	
180					185					190						
Gly	Leu	Gly	Tyr	Phe	Glu	Ala	Glu	Arg	Asn	Ala	Ser	His	Leu	Val	Cys	
195					200					205						
Ser	Ala	Cys	Phe	Gly	Pro	Cys	Ala	Arg	Cys	Ser	Gly	Pro	Glu	Glu	Ser	
210					215					220						
Asn	Cys	Leu	Gln	Cys	Lys	Lys	Gly	Trp	Ala	Leu	His	His	Leu	Lys	Cys	
225					230					235					240	
Val	Asp	Ile	Asp	Glu	Cys	Gly	Thr	Glu	Gly	Ala	Asn	Cys	Gly	Ala	Asp	
245					250					255						
Gln	Phe	Cys	Val	Asn	Thr	Glu	Gly	Ser	Tyr	Glu	Cys	Arg	Asp	Cys	Ala	
260					265					270						
Lys	Ala	Cys	Leu	Gly	Cys	Met	Gly	Ala	Gly	Pro	Gly	Arg	Cys	Lys	Lys	
275					280					285						
Cys	Ser	Pro	Gly	Tyr	Gln	Gln	Val	Gly	Ser	Lys	Cys	Leu	Asp	Val	Asp	
290					295					300						
Glu	Cys	Glu	Thr	Glu	Val	Cys	Pro	Gly	Glu	Asn	Lys	Gln	Cys	Glu	Asn	
305					310					315					320	
Thr	Glu	Gly	Gly	Tyr	Arg	Cys	Ile	Cys	Ala	Glu	Gly	Tyr	Lys	Gln	Met	
325					330					335						
Glu	Gly	Ile	Cys	Val	Lys	Glu	Gln	Ile	Pro	Gly	Ala	Phe	Pro	Ile	Leu	
340					345					350						
Thr	Asp	Leu	Thr	Pro	Glu	Thr	Thr	Arg	Arg	Trp	Lys	Leu	Gly	Ser	His	
355					360					365						
Pro	His	Ser	Thr	Tyr	Val	Lys	Met	Lys	Met	Gln	Arg	Asp	Glu	Ala	Thr	
370					375					380						
Phe	Pro	Gly	Leu	Tyr	Gly	Lys	Gln	Val	Ala	Lys	Leu	Gly	Ser	Gln	Ser	
385					390					395					400	
Arg	Gln	Ser	Asp	Arg	Gly	Thr	Arg	Leu	Ile	His	Val	Ile	Asn	Ala	Leu	
405					410					415						

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Pro Pro Thr Cys Pro Pro Gln Lys Lys Lys Lys Lys Lys Lys Gly
 420 425 430

Gly Arg

<210> 182
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 182
 Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val
 1 5 10 15
 Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr
 20 25 30
 Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser
 35 40 45
 Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp
 50 55 60
 Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln
 65 70 75 80
 Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn
 85 90 95
 Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn
 100 105 110
 Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys
 115 120 125
 Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro
 130 135 140
 Ile Ser Ile Met Ile Cys
 145 150

<210> 183
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 183
 His Ala Ser Gly Trp Arg Thr Pro Arg Asp Pro Glu Arg Pro Pro Arg
 1 5 10 15
 His Ile Gln Thr Ser Ala Ala Pro Ala Pro Ser Gln Pro Ser Trp Asp
 20 25 30
 Ser Arg Ala His Pro Thr Gln Arg Arg Asp Pro Gly Pro Pro Gly Pro

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35 40 45

Ser Ala Asp Ser Thr Ala His Phe Pro Gly Pro Pro His Thr Ser Gln
50 55 60

Pro Ser Gly Arg Ser Leu Pro Thr Arg Cys Arg Val Pro Pro Ala Leu
65 70 75 80

Ser Arg Pro Gly Ser Pro Pro Pro Gly Pro Arg Gly Gly Pro Ser Gln
85 90 95

Ala Pro Phe Glu Pro Arg Arg Arg Pro Gly Leu Gly Arg Thr
100 105 110

<210> 184
<211> 56
<212> PRT
<213> Homo sapiens

<400> 184
His Ala Ser Gly Trp Arg Thr Pro Arg Asp Pro Glu Arg Pro Pro Arg
1 5 10 15

His Ile Gln Thr Ser Ala Ala Pro Ala Pro Ser Gln Pro Ser Trp Asp
20 25 30

Ser Arg Ala His Pro Thr Gln Arg Arg Asp Pro Gly Pro Pro Gly Pro
35 40 45

Ser Ala Asp Ser Thr Ala His Phe
50 55

<210> 185
<211> 54
<212> PRT
<213> Homo sapiens

<400> 185
Pro Gly Pro Pro His Thr Ser Gln Pro Ser Gly Arg Ser Leu Pro Thr
1 5 10 15

Arg Cys Arg Val Pro Pro Ala Leu Ser Arg Pro Gly Ser Pro Pro Pro
20 25 30

Gly Pro Arg Gly Gly Pro Ser Gln Ala Pro Phe Glu Pro Arg Arg Arg
35 40 45

Pro Gly Leu Gly Arg Thr
50

<210> 186
<211> 723
<212> PRT
<213> Homo sapiens

10050704.011002

<400> 186

His	Ala	Ser	Ala	Ser	Pro	Gly	Arg	Val	Asp	Ala	Asp	Ser	Asn	Ala	Val
1				5					10					15	
Ala	Ser	Gly	Pro	Arg	Thr	Pro	Ser	Gly	Pro	Thr	Arg	Gln	Glu	Arg	Leu
			20					25					30		
Arg	Pro	Arg	Pro	Ala	Pro	Pro	Gly	Ser	Leu	Arg	Arg	Arg	Arg	Leu	Pro
		35					40				45				
Gly	Gln	Lys	Met	Cys	Ser	Arg	Val	Pro	Leu	Leu	Leu	Pro	Leu	Leu	Leu
	50					55					60				
Leu	Leu	Ala	Leu	Gly	Pro	Gly	Val	Gln	Gly	Cys	Pro	Ser	Gly	Cys	Gln
65					70					75					80
Cys	Ser	Gln	Pro	Gln	Thr	Val	Phe	Cys	Thr	Ala	Arg	Gln	Gly	Thr	Thr
				85					90					95	
Val	Pro	Arg	Asp	Val	Pro	Pro	Asp	Thr	Val	Gly	Leu	Tyr	Val	Phe	Glu
			100					105					110		
Asn	Gly	Ile	Thr	Met	Leu	Asp	Ala	Gly	Ser	Phe	Ala	Gly	Leu	Pro	Gly
		115					120					125			
Leu	Gln	Leu	Leu	Asp	Leu	Ser	Gln	Asn	Gln	Ile	Ala	Ser	Leu	Pro	Ser
	130					135					140				
Gly	Val	Phe	Gln	Pro	Leu	Ala	Asn	Leu	Ser	Asn	Leu	Asp	Leu	Thr	Ala
145					150					155					160
Asn	Arg	Leu	His	Glu	Ile	Thr	Asn	Glu	Thr	Phe	Arg	Gly	Leu	Arg	Arg
				165					170					175	
Leu	Glu	Arg	Leu	Tyr	Leu	Gly	Lys	Asn	Arg	Ile	Arg	His	Ile	Gln	Pro
			180					185					190		
Gly	Ala	Phe	Asp	Thr	Leu	Asp	Arg	Leu	Leu	Glu	Leu	Lys	Leu	Gln	Asp
		195					200					205			
Asn	Glu	Leu	Arg	Ala	Leu	Pro	Pro	Leu	Arg	Leu	Pro	Arg	Leu	Leu	Leu
	210					215					220				
Leu	Asp	Leu	Ser	His	Asn	Ser	Leu	Leu	Ala	Leu	Glu	Pro	Gly	Ile	Leu
225					230					235					240
Asp	Thr	Ala	Asn	Val	Glu	Ala	Leu	Arg	Leu	Ala	Gly	Leu	Gly	Leu	Gln
				245					250					255	
Gln	Leu	Asp	Glu	Gly	Leu	Phe	Ser	Arg	Leu	Arg	Asn	Leu	His	Asp	Leu
			260					265					270		
Asp	Val	Ser	Asp	Asn	Gln	Leu	Glu	Arg	Val	Pro	Pro	Val	Ile	Arg	Gly
		275					280						285		
Leu	Arg	Gly	Leu	Thr	Arg	Leu	Arg	Leu	Ala	Gly	Asn	Thr	Arg	Ile	Ala
	290					295					300				

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Gln Leu Arg Pro Glu Asp Leu Ala Gly Leu Ala Ala Leu Gln Glu Leu
 305 310 315 320
 Asp Val Ser Asn Leu Ser Leu Gln Ala Leu Pro Gly Asp Leu Ser Gly
 325 330 335
 Leu Phe Pro Arg Leu Arg Leu Leu Ala Ala Ala Arg Asn Pro Phe Asn
 340 345 350
 Cys Val Cys Pro Leu Ser Trp Phe Gly Pro Trp Val Arg Glu Ser His
 355 360 365
 Val Thr Leu Ala Ser Pro Glu Glu Thr Arg Cys His Phe Pro Pro Lys
 370 375 380
 Asn Ala Gly Arg Leu Leu Leu Glu Leu Asp Tyr Ala Asp Phe Gly Cys
 385 390 395 400
 Pro Ala Thr Thr Thr Thr Ala Thr Val Pro Thr Thr Arg Pro Val Val
 405 410 415
 Arg Glu Pro Thr Ala Leu Ser Ser Ser Leu Ala Pro Thr Trp Leu Ser
 420 425 430
 Pro Thr Ala Pro Ala Thr Glu Ala Pro Ser Pro Pro Ser Thr Ala Pro
 435 440 445
 Pro Thr Val Gly Pro Val Pro Gln Pro Gln Asp Cys Pro Pro Ser Thr
 450 455 460
 Cys Leu Asn Gly Gly Thr Cys His Leu Gly Thr Arg His His Leu Ala
 465 470 475 480
 Cys Leu Cys Pro Glu Gly Phe Thr Gly Leu Tyr Cys Glu Ser Gln Met
 485 490 495
 Gly Gln Gly Thr Arg Pro Ser Pro Thr Pro Val Thr Pro Arg Pro Pro
 500 505 510
 Arg Ser Leu Thr Leu Gly Ile Glu Pro Val Ser Pro Thr Ser Leu Arg
 515 520 525
 Val Gly Leu Gln Arg Tyr Leu Gln Gly Ser Ser Val Gln Leu Arg Ser
 530 535 540
 Leu Arg Leu Thr Tyr Arg Asn Leu Ser Gly Pro Asp Lys Arg Leu Val
 545 550 555 560
 Thr Leu Arg Leu Pro Ala Ser Leu Ala Glu Tyr Thr Val Thr Gln Leu
 565 570 575
 Arg Pro Asn Ala Thr Tyr Ser Val Cys Val Met Pro Leu Gly Pro Gly
 580 585 590
 Arg Val Pro Glu Gly Glu Glu Ala Cys Gly Glu Ala His Thr Pro Pro
 595 600 605
 Ala Val His Ser Asn His Ala Pro Val Thr Gln Ala Arg Glu Gly Asn

610 615 620
 Leu Pro Leu Leu Ile Ala Pro Ala Leu Ala Ala Val Leu Leu Ala Ala
 625 630 635 640
 Leu Ala Ala Val Gly Ala Ala Tyr Cys Val Arg Arg Gly Arg Ala Met
 645 650 655
 Ala Ala Ala Ala Gln Asp Lys Gly Gln Val Gly Pro Gly Ala Gly Pro
 660 665 670
 Leu Glu Leu Glu Gly Val Lys Val Pro Leu Glu Pro Gly Pro Lys Ala
 675 680 685
 Thr Glu Ala Val Glu Arg Pro Cys Pro Ala Gly Leu Ser Val Lys Cys
 690 695 700
 His Ser Trp Ala Ser Lys Ala Trp Pro Gln Ser Pro Leu His Ala Lys
 705 710 715 720

Pro Tyr Ile

<210> 187
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 187
 His Ala Ser Gly Arg Leu Gln Thr Gln Arg Glu Gly Gly Gln Gly Val
 1 5 10 15
 Gly Arg Arg Arg Thr Glu Glu Gly Thr Glu Thr Gln Ser Lys Gly Gly
 20 25 30
 Lys Glu Glu Thr Leu Val Gly Gly Arg His Ser Gly Glu Arg Gly Gly
 35 40 45
 Trp Ala Glu
 50

<210> 188
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 188
 Pro Arg Val Arg Ala Glu Ser Glu Gly Thr Tyr Asp Thr Tyr Gln His
 1 5 10 15
 Val Pro Val Glu Ser Phe Ala Glu Val Leu Leu Arg Thr Gly Lys Leu
 20 25 30
 Ala Glu Ala Lys Asn Lys Gly Glu Val Phe Pro Thr Thr Glu Val Leu
 35 40 45

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Leu Gln Leu Ala Ser Glu Ala Leu Pro Asn Asp
 50 55

<210> 189
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 189
 Thr Leu Asn His Leu Glu Lys Ser Leu Ala His Leu Glu Thr Leu Ser
 1 5 10 15
 His Ser Phe Ile Leu Ser Leu Lys Asn Ser Glu Gln Glu Thr Leu Gln
 20 25 30

Lys Tyr Ser
 35

<210> 190
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 190
 His Leu Tyr Asp Leu Ser Arg Ser Glu Lys Glu Lys Leu His Asp Glu
 1 5 10 15
 Ala Val Ala Ile Cys Leu Asp Gly Gln Pro Leu Ala Met Ile Gln Gln
 20 25 30

Leu Leu Glu Val
 35

<210> 191
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 191
 Ala Val Gly Pro Leu Asp Ile Ser Pro Lys Asp Ile Val Gln Ser Ala
 1 5 10 15
 Ile Met Lys Ile Ile Ser Ala Leu Ser Gly Gly Ser Ala Asp Leu Gly
 20 25 30

Gly Pro Arg
 35

<210> 192
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 192

Asp Pro Leu Lys Val Leu Glu Gly Val Val Ala Ala Val His Ala Ser
 1 5 10 15

Val Asp Lys Gly Glu Glu Leu Val Ser Pro Glu Asp Leu Leu Glu Trp
 20 25 30

Leu Arg Pro Phe
 35

<210> 193

<211> 35

<212> PRT

<213> Homo sapiens

<400> 193

Cys Ala Asp Asp Ala Trp Pro Val Arg Pro Arg Ile His Val Leu Gln
 1 5 10 15

Ile Leu Gly Gln Ser Phe His Leu Thr Glu Glu Asp Ser Lys Leu Leu
 20 25 30

Val Phe Phe
 35

<210> 194

<211> 37

<212> PRT

<213> Homo sapiens

<400> 194

Arg Thr Glu Ala Ile Leu Lys Ala Ser Trp Pro Gln Arg Gln Val Asp
 1 5 10 15

Ile Ala Asp Ile Glu Asn Glu Glu Asn Arg Tyr Cys Leu Phe Met Glu
 20 25 30

Leu Leu Glu Ser Ser
 35

<210> 195

<211> 34

<212> PRT

<213> Homo sapiens

<400> 195

His His Glu Ala Glu Phe Gln His Leu Val Leu Leu Leu Gln Ala Trp
 1 5 10 15

Pro Pro Met Lys Ser Glu Tyr Val Ile Thr Asn Asn Pro Trp Val Arg
 20 25 30

Leu Ala

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<210> 196
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 196
 Thr Val Met Leu Thr Arg Cys Thr Met Glu Asn Lys Glu Gly Leu Gly
 1 5 10 15
 Asn Glu Val Leu Lys Met Cys Arg Ser Leu Tyr Asn Thr Lys Gln Met
 20 25 30
 Leu Pro Ala Glu
 35

<210> 197
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 197
 Gly Val Lys Glu Leu Cys Leu Leu Leu Leu Asn Gln Ser Leu Leu Leu
 1 5 10 15
 Pro Ser Leu Lys Leu Leu Leu Glu Ser Arg Asp Glu His Leu His Glu
 20 25 30
 Met Ala Leu
 35

<210> 198
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 198
 Glu Gln Ile Thr Ala Val Thr Thr Val Asn Asp Ser Asn Cys Asp Gln
 1 5 10 15
 Glu Leu Leu Ser Leu Leu Leu Asp Ala Lys Leu Leu Val Lys Cys Val
 20 25 30
 Ser Thr Pro Phe
 35

<210> 199
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 199
 Tyr Pro Arg Ile Val Asp His Leu Leu Ala Ser Leu Gln Gln Gly Arg
 1 5 10 15
 Trp Asp Ala Glu Glu Leu Gly Arg His Leu Arg Glu Ala Gly His Glu

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20

25

30

Ala Glu Ala
35

<210> 200
<211> 28
<212> PRT
<213> Homo sapiens

<400> 200
Gly Ser Leu Leu Leu Ala Val Arg Gly Thr His Gln Ala Phe Arg Thr
1 5 10 15

Phe Ser Thr Ala Leu Arg Ala Ala Gln His Trp Val
20 25

<210> 201
<211> 38
<212> PRT
<213> Homo sapiens

<400> 201
Pro Ser Ser Tyr Thr Ala Thr Met Asn Val Ser Trp Ile Ser Leu Arg
1 5 10 15

Arg Arg Ser Phe Arg Ala Phe Gly Arg Val Trp Thr Cys Ser Gly Leu
20 25 30

Leu Gln Met Thr Ser Ile
35

<210> 202
<211> 33
<212> PRT
<213> Homo sapiens

<400> 202
Lys Gly Lys Leu Ser Leu Val Trp Gln Arg Leu Asp Gly His Phe Cys
1 5 10 15

Arg Thr Leu Glu Glu Ser Val Tyr Ser Ile Ala Ile Ser Leu Ala Gln
20 25 30

Arg

<210> 203
<211> 35
<212> PRT
<213> Homo sapiens

<400> 203
Tyr Ser Val Ser Arg Trp Glu Val Phe Met Thr His Leu Glu Phe Leu

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1 5 10 15
 Phe Thr Asp Ser Gly Leu Ser Thr Leu Glu Ile Glu Asn Arg Ala Gln
 20 25 30

Asp Leu His
 35

<210> 204
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 204
 Leu Phe Glu Thr Leu Lys Thr Asp Pro Glu Ala Phe His Gln His Met
 1 5 10 15

Val Lys Tyr Ile Tyr Pro Thr Ile Gly Gly Phe Asp His Glu Arg Leu
 20 25 30

Gln Tyr Tyr Phe
 35

<210> 205
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 205
 Thr Leu Leu Glu Asn Cys Gly Cys Ala Asp Leu Gly Asn Cys Ala Ile
 1 5 10 15

Lys Pro Glu Thr His Ile Arg Leu Leu Lys Lys Phe Lys Val Val Ala
 20 25 30

Ser Gly Leu
 35

<210> 206
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 206
 Asn Tyr Lys Lys Leu Thr Asp Glu Asn Met Ser Pro Leu Glu Ala Leu
 1 5 10 15

Glu Pro Val Leu Ser Ser Gln Asn Ile Leu Ser Ile Ser Lys Leu Val
 20 25 30

Pro Lys Ile Pro
 35

<210> 207

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<211> 36
 <212> PRT
 <213> Homo sapiens

<400> 207
 Glu Lys Asp Gly Gln Met Leu Ser Pro Ser Ser Leu Tyr Thr Ile Trp
 1 5 10 15
 Leu Gln Lys Leu Phe Trp Thr Gly Asp Pro His Leu Ile Lys Gln Val
 20 25 30
 Pro Gly Ser Ser
 35

<210> 208
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 208
 Pro Glu Trp Leu His Ala Tyr Asp Val Cys Met Lys Tyr Phe Asp Arg
 1 5 10 15
 Leu His Pro Gly Asp Leu Ile Thr Val Val Asp Ala Val Thr Phe Ser
 20 25 30
 Pro Lys Ala
 35

<210> 209
 <211> 244
 <212> PRT
 <213> Homo sapiens

<400> 209
 Met Leu Val Tyr Leu Ile Thr Gly Asp Val Lys Phe Gly Leu Leu Ala
 1 5 10 15
 Arg Val Gly Cys Cys Leu Thr Val Pro Thr Glu Arg Cys Phe Phe Ser
 20 25 30
 Phe Cys Ala Ala Val Lys Lys Pro Ala Pro Ala Pro Pro Lys Pro Gly
 35 40 45
 Asn Pro Pro Pro Gly His Pro Gly Gly Gln Ser Ser Ser Gly Thr Ser
 50 55 60
 Gln His Pro Pro Ser Leu Ser Pro Lys Pro Pro Thr Arg Ser Pro Ser
 65 70 75 80
 Pro Pro Thr Gln His Thr Gly Gln Pro Pro Gly Gln Pro Ser Ala Pro
 85 90 95
 Ser Gln Leu Ser Ala Pro Arg Arg Tyr Ser Ser Ser Leu Ser Pro Ile
 100 105 110

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Gln Ala Pro Asn His Pro Pro Pro Gln Pro Pro Thr Gln Ala Thr Pro
115 120 125

Leu Met His Thr Lys Pro Asn Ser Gln Gly Pro Pro Asn Pro Met Ala
130 135 140

Leu Pro Ser Glu His Gly Leu Glu Gln Pro Ser His Thr Pro Pro Gln
145 150 155 160

Thr Pro Thr Pro Pro Ser Thr Pro Pro Leu Gly Lys Gln Asn Pro Ser
165 170 175

Leu Pro Ala Pro Gln Thr Leu Ala Gly Gly Asn Pro Glu Thr Ala Gln
180 185 190

Pro His Ala Gly Thr Leu Pro Arg Pro Arg Pro Val Pro Lys Pro Arg
195 200 205

Asn Arg Pro Ser Val Pro Pro Pro Pro Gln Pro Pro Gly Val His Ser
210 215 220

Ala Gly Asp Ser Ser Leu Thr Asn Thr Ala Pro Thr Ala Ser Lys Ile
225 230 235 240

Val Thr Asp Val

<210> 210

<211> 36

<212> PRT

<213> Homo sapiens

<400> 210

Pro Thr Arg Pro Arg Arg Arg Ser Pro Ser Pro Thr Gln Cys Gly Ala
1 5 10 15

Arg Arg Glu Pro Arg Arg Lys Leu Ser Ala Ser Ala Arg Gln Ala Arg
20 25 30

Arg Arg Arg Ala
35

<210> 211

<211> 195

<212> PRT

<213> Homo sapiens

<400> 211

Met Lys Phe Thr Ile Val Phe Ala Gly Leu Leu Gly Val Phe Leu Ala
1 5 10 15

Pro Ala Leu Ala Asn Tyr Asn Ile Asn Val Asn Asp Asp Asn Asn Asn
20 25 30

Ala Gly Ser Gly Gln Gln Ser Val Ser Val Asn Asn Glu His Asn Val
35 40 45

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Ala Asn Val Asp Asn Asn Asn Gly Trp Asp Ser Trp Asn Ser Ile Trp
50 55 60

Asp Tyr Gly Asn Gly Phe Ala Ala Thr Arg Leu Phe Gln Lys Lys Thr
65 70 75 80

Cys Ile Val His Lys Met Asn Lys Glu Val Met Pro Ser Ile Gln Ser
85 90 95

Leu Asp Ala Leu Val Lys Glu Lys Lys Leu Gln Gly Lys Gly Pro Gly
100 105 110

Gly Pro Pro Pro Lys Gly Leu Met Tyr Ser Val Asn Pro Asn Lys Val
115 120 125

Asp Asp Leu Ser Lys Phe Gly Lys Asn Ile Ala Asn Met Cys Arg Gly
130 135 140

Ile Pro Thr Tyr Met Ala Glu Glu Met Gln Glu Ala Ser Leu Phe Phe
145 150 155 160

Tyr Ser Gly Thr Cys Tyr Thr Thr Ser Val Leu Trp Ile Val Asp Ile
165 170 175

Ser Phe Cys Gly Asp Thr Gly Gly Glu Leu Asn Asn Phe Leu Lys Pro
180 185 190

Leu Trp Ile
195

<210> 212
<211> 182
<212> PRT
<213> Homo sapiens

<400> 212
Met Lys Phe Thr Ile Val Phe Ala Gly Leu Leu Gly Val Phe Leu Ala
1 5 10 15

Pro Ala Leu Ala Asn Tyr Asn Ile Asn Val Asn Asp Asp Asn Asn Asn
20 25 30

Ala Gly Ser Gly Gln Gln Ser Val Ser Val Asn Asn Glu His Asn Val
35 40 45

Ala Asn Val Asp Asn Asn Asn Gly Trp Asp Ser Trp Asn Ser Ile Trp
50 55 60

Asp Tyr Gly Asn Gly Phe Ala Ala Thr Arg Leu Phe Gln Lys Lys Thr
65 70 75 80

Cys Ile Val His Lys Met Asn Lys Glu Val Met Pro Ser Ile Gln Ser
85 90 95

Leu Asp Ala Leu Val Lys Glu Lys Lys Leu Gln Gly Lys Gly Pro Gly
100 105 110

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Gly Pro Pro Pro Lys Gly Leu Met Tyr Ser Val Asn Pro Asn Lys Val
 115 120 125

Asp Asp Leu Ser Lys Phe Gly Lys Asn Ile Ala Asn Met Cys Arg Gly
 130 135 140

Ile Pro Thr Tyr Met Ala Glu Glu Met Gln Glu Ala Ser Leu Phe Phe
 145 150 155 160

Tyr Ser Gly Thr Cys Tyr Thr Thr Ser Val Leu Trp Ile Val Asp Ile
 165 170 175

Ser Phe Cys Gly Asp Thr
 180

<210> 213
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 213
 Gly Gly Glu Leu Asn Asn Phe Leu Lys Pro Leu Trp Ile
 1 5 10

<210> 214
 <211> 171
 <212> PRT
 <213> Homo sapiens

<400> 214
 Phe Ile Phe Ser Val Lys Lys Lys Lys Thr Asp Asp Gly Pro Ser Leu
 1 5 10 15

Gly Ala Gln Asp Gln Arg Ser Thr Pro Thr Asn Gln Lys Gly Ser Ile
 20 25 30

Ile Pro Asn Asn Ile Arg His Lys Phe Gly Ser Asn Val Val Asp Gln
 35 40 45

Leu Val Ser Glu Glu Gln Ala Gln Lys Ala Ile Asp Glu Val Phe Glu
 50 55 60

Gly Gln Lys Arg Ala Ser Ser Trp Pro Ser Arg Thr Gln Asn Pro Val
 65 70 75 80

Glu Ile Ser Ser Val Phe Ser Asp Tyr Tyr Asp Leu Gly Tyr Asn Met
 85 90 95

Arg Ser Asn Leu Phe Arg Gly Ala Ala Glu Glu Thr Lys Ser Leu Met
 100 105 110

Lys Ala Ser Tyr Thr Pro Glu Val Ile Glu Lys Ser Val Arg Asp Leu
 115 120 125

Glu His Trp His Gly Arg Lys Thr Asp Asp Leu Gly Arg Trp His Gln

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130 135 140

Lys Asn Ala Met Asn Leu Asn Leu Gln Lys Ala Leu Glu Glu Lys Tyr
 145 150 155 160

Gly Glu Asn Ser Lys Ser Lys Ser Ser Lys Tyr
 165 170

<210> 215
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 215
 Gly Ser Ile Ile Pro Asn Asn Ile Arg His Lys Phe Gly Ser Asn Val
 1 5 10 15

Val Asp Gln Leu Val Ser Glu Glu Gln Ala Gln Lys Ala Ile Asp
 20 25 30

<210> 216
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 216
 Glu Val Phe Glu Gly Gln Lys Arg Ala Ser Ser Trp Pro Ser Arg Thr
 1 5 10 15

Gln Asn Pro Val Glu Ile Ser Ser Val Phe Ser Asp Tyr Tyr Asp Leu
 20 25 30

Gly

<210> 217
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 217
 Tyr Asn Met Arg Ser Asn Leu Phe Arg Gly Ala Ala Glu Glu Thr Lys
 1 5 10 15

Ser Leu Met Lys Ala Ser Tyr Thr Pro Glu Val Ile Glu Lys Ser Val
 20 25 30

Arg Asp Leu Glu His Trp His Gly
 35 40

<210> 218
 <211> 38
 <212> PRT
 <213> Homo sapiens

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<400> 218

Arg Lys Thr Asp Asp Leu Gly Arg Trp His Gln Lys Asn Ala Met Asn
 1 5 10 15

Leu Asn Leu Gln Lys Ala Leu Glu Glu Lys Tyr Gly Glu Asn Ser Lys
 20 25 30

Ser Lys Ser Ser Lys Tyr
 35

<210> 219

<211> 39

<212> PRT

<213> Homo sapiens

<400> 219

His Glu Ser Ala Arg Gly Arg Trp Glu Gly Gly Gly Arg Arg Ala Cys
 1 5 10 15

Arg Gly Ser Leu Gly Leu Ala Arg Ala Gln Gly Ala Glu Arg Val Thr
 20 25 30

Ser Ser Glu Gln Arg Pro Ala
 35

<210> 220

<211> 160

<212> PRT

<213> Homo sapiens

<400> 220

Ser Gln Val Pro Lys Arg Thr Asp Ser Ser Glu Pro Cys Gly Leu Ser
 1 5 10 15

Asp Leu Cys Arg Ser Leu Met Thr Lys Pro Gly Cys Ser Gly Tyr Cys
 20 25 30

Leu Ser His Gln Leu Leu Phe Phe Leu Trp Ala Arg Met Arg Gly Cys
 35 40 45

Thr Gln Gly Pro Leu Gln Gln Ser Gln Asp Tyr Ile Thr Phe Cys Ala
 50 55 60

Asn Met Met Asp Leu Asn Arg Arg Ala Glu Ala Ile Gly Tyr Ala Tyr
 65 70 75 80

Pro Thr Arg Asp Ile Phe Met Glu Asn Ile Met Phe Cys Gly Met Gly
 85 90 95

Gly Phe Ser Asp Phe Tyr Lys Leu Arg Trp Leu Glu Ala Ile Leu Ser
 100 105 110

Trp Gln Lys Gln Gln Glu Gly Cys Phe Gly Glu Pro Asp Ala Glu Asp
 115 120 125

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Glu Glu Leu Ser Lys Ala Ile Gln Tyr Gln Gln His Phe Ser Arg Arg
 130 135 140

Val Lys Arg Arg Glu Lys Gln Phe Pro Glu Tyr Trp Lys Trp Cys Pro
 145 150 155 160

<210> 221
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 221
 Ser Gln Val Pro Lys Arg Thr Asp Ser Ser Glu Pro Cys Gly Leu Ser
 1 5 10 15

Asp Leu Cys Arg Ser Leu Met Thr Lys Pro Gly Cys Ser Gly Tyr Cys
 20 25 30

Leu Ser His Gln Leu Leu Phe
 35

<210> 222
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 222
 Phe Leu Trp Ala Arg Met Arg Gly Cys Thr Gln Gly Pro Leu Gln Gln
 1 5 10 15

Ser Gln Asp Tyr Ile Thr Phe Cys Ala Asn Met Met Asp Leu Asn Arg
 20 25 30

Arg Ala Glu Ala
 35

<210> 223
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 223
 Ile Gly Tyr Ala Tyr Pro Thr Arg Asp Ile Phe Met Glu Asn Ile Met
 1 5 10 15

Phe Cys Gly Met Gly Gly Phe Ser Asp Phe Tyr Lys Leu Arg Trp Leu
 20 25 30

Glu Ala Ile Leu Ser Trp Gln Lys Gln Gln Glu Gly
 35 40

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<210> 224
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 224
 Cys Phe Gly Glu Pro Asp Ala Glu Asp Glu Glu Leu Ser Lys Ala Ile
 1 5 10 15
 Gln Tyr Gln Gln His Phe Ser Arg Arg Val Lys Arg Arg Glu Lys Gln
 20 25 30
 Phe Pro Glu Tyr Trp Lys Trp Cys Pro
 35 40

<210> 225
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 225
 Met Thr Lys Pro Gly Cys Ser Gly Tyr Cys Leu Ser His Gln Leu Leu
 1 5 10 15
 Phe Phe Leu Trp Ala Arg Met Arg Gly Cys Thr Gln Gly Pro Leu Gln
 20 25 30
 Gln Ser Gln Asp Tyr Ile Thr Phe Cys Ala Asn Met Met Asp Leu Asn
 35 40 45
 Arg Arg Ala Glu Ala Ile Gly Tyr Ala Tyr Pro Thr Arg Asp Ile Phe
 50 55 60
 Met Glu Asn Ile Met Phe Cys Gly Met Gly Gly Phe Ser Asp Phe Tyr
 65 70 75 80
 Lys Leu Arg Trp Leu Glu Ala Ile Leu Ser Trp Gln Lys Gln Gln Glu
 85 90 95
 Gly Cys Phe Gly Glu Pro Asp Ala Glu Asp Glu Glu Leu Ser Lys Ala
 100 105 110
 Ile Gln Tyr Gln Gln His Phe Ser Arg Arg Val Lys Arg Arg Glu Lys
 115 120 125
 Gln Phe Pro Glu Tyr Trp Lys Trp Cys Pro
 130 135

<210> 226
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 226
 Phe Cys Ala Asn Met Met Asp Leu Asn Arg Arg Ala Glu Ala Ile Gly
 1 5 10 15

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Tyr Ala Tyr Pro Thr Arg Asp Ile Phe Met Glu Asn Ile Met Phe Cys
 20 25 30
 Gly Met Gly Gly Phe Ser Asp Phe Tyr Lys Leu Arg Trp Leu Glu Ala
 35 40 45
 Ile Leu Ser Trp Gln Lys Gln Gln Glu Gly Cys Phe Gly Glu Pro Asp
 50 55 60
 Ala Glu Asp Glu Glu Leu Ser Lys Ala Ile Gln Tyr Gln Gln His Phe
 65 70 75 80
 Ser Arg Arg Val Lys Arg Arg Glu Lys Gln Phe Pro
 85 90

<210> 227
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 227
 Met Ala Ser Leu Gly Leu Leu Leu Leu Leu Leu Thr Ala Leu Pro
 1 5 10 15
 Pro Leu Trp Ser Ser Ser Leu Pro Gly Leu Asp Thr Ala Glu Ser Lys
 20 25 30
 Ala Thr Ile Ala Asp Leu Ile Leu Ser Ala Leu Glu Arg Ala Thr Val
 35 40 45
 Phe Leu Glu Gln Arg Leu Pro Glu Ile Asn Leu Asp Gly Met Val Gly
 50 55 60
 Val Arg Val Leu Glu Glu Gln Leu Lys Ser Val Arg Glu Lys Trp Ala
 65 70 75 80
 Gln Glu Pro Leu Leu Gln Pro Leu Ser Leu Arg Val Gly Met Leu Gly
 85 90 95
 Glu Lys Leu Glu Ala Ala Ile Gln Arg Ser Leu His Tyr Leu Lys Leu
 100 105 110
 Ser Asp Pro Lys Tyr Leu Arg
 115

<210> 228
 <211> 175
 <212> PRT
 <213> Homo sapiens

<400> 228
 His Glu Ser Ala Arg Gly Arg Trp Glu Gly Gly Gly Arg Arg Ala Cys
 1 5 10 15
 Arg Gly Ser Leu Gly Leu Ala Arg Ala Gln Gly Ala Glu Arg Val Thr

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20 25 30
 Ser Ser Glu Gln Arg Pro Ala Met Ala Ser Leu Gly Leu Leu Leu
 35 40 45
 Leu Leu Leu Thr Ala Leu Pro Pro Leu Trp Ser Ser Ser Leu Pro Gly
 50 55 60
 Leu Asp Thr Ala Glu Ser Lys Ala Thr Ile Ala Asp Leu Ile Leu Ser
 65 70 75 80
 Ala Leu Glu Arg Ala Thr Val Phe Leu Glu Gln Arg Leu Pro Glu Ile
 85 90 95
 Asn Leu Asp Gly Met Val Gly Val Arg Val Leu Glu Glu Gln Leu Lys
 100 105 110
 Ser Val Arg Glu Lys Trp Ala Gln Glu Pro Leu Leu Gln Pro Leu Ser
 115 120 125
 Leu Arg Val Gly Met Leu Gly Glu Lys Leu Glu Ala Ala Ile Gln Arg
 130 135 140
 Ser Leu His Tyr Leu Lys Leu Ser Asp Pro Lys Tyr Leu Arg Gly Arg
 145 150 155 160
 Thr Ala Ala Ser Pro Ala Ala Ser Gln Thr Ser Ala Gly Ala Ser
 165 170 175

<210> 229

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 229

Lys Ser Val Gly Arg Ser Ser Pro Thr Arg Arg Tyr Arg Ala Ala Val
 1 5 10 15

Gly Glu Thr Pro Ala Gly Ala Gln Xaa Gln Leu Arg Gly Arg Glu Gly
 20 25 30

Arg Trp Arg Arg Leu Gly Gln Pro Phe Pro Arg Gly Ser Thr Ala Leu
 35 40 45

Arg

<210> 230

<211> 55

<212> PRT

<213> Homo sapiens

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<400> 230

Ile Phe Leu Phe Tyr Leu Pro Pro Ser Pro Pro Ser Arg Leu Leu Val
 1 5 10 15

Pro Gly Tyr Trp Cys Leu Ala Ser Trp Gln Gly Pro Gly Thr Trp Thr
 20 25 30

Ile Ser His Thr Thr Pro Arg Gly Gly Ile Phe Phe Tyr Phe Pro Tyr
 35 40 45

Glu Lys Gln Ile Phe Leu Arg
 50 55

<210> 231

<211> 479

<212> PRT

<213> Homo sapiens

<400> 231

Met Val Leu Leu His Trp Cys Leu Leu Trp Leu Leu Phe Pro Leu Ser
 1 5 10 15

Ser Arg Thr Gln Lys Leu Pro Thr Arg Asp Glu Glu Leu Phe Gln Met
 20 25 30

Gln Ile Arg Asp Lys Ala Phe Phe His Asp Ser Ser Val Ile Pro Asp
 35 40 45

Gly Ala Glu Ile Ser Ser Tyr Leu Phe Arg Asp Thr Pro Lys Arg Tyr
 50 55 60

Phe Phe Val Val Glu Glu Asp Asn Thr Pro Leu Ser Val Thr Val Thr
 65 70 75 80

Pro Cys Asp Ala Pro Leu Glu Trp Lys Leu Ser Leu Gln Glu Leu Pro
 85 90 95

Glu Asp Arg Ser Gly Glu Gly Ser Gly Asp Leu Glu Pro Leu Glu Gln
 100 105 110

Gln Lys Gln Gln Ile Ile Asn Glu Glu Gly Thr Glu Leu Phe Ser Tyr
 115 120 125

Lys Gly Asn Asp Val Glu Tyr Phe Ile Ser Ser Ser Ser Pro Ser Gly
 130 135 140

Leu Tyr Gln Leu Asp Leu Leu Ser Thr Glu Lys Asp Thr His Phe Lys
 145 150 155 160

Val Tyr Ala Thr Thr Thr Pro Glu Ser Asp Gln Pro Tyr Pro Glu Leu
 165 170 175

Pro Tyr Asp Pro Arg Val Asp Val Thr Ser Leu Gly Arg Thr Thr Val
 180 185 190

Thr Leu Ala Trp Lys Pro Ser Pro Thr Ala Ser Leu Leu Lys Gln Pro

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195					200					205					
Ile	Gln	Tyr	Cys	Val	Val	Ile	Asn	Lys	Glu	His	Asn	Phe	Lys	Ser	Leu
210					215					220					
Cys	Ala	Val	Glu	Ala	Lys	Leu	Ser	Ala	Asp	Asp	Ala	Phe	Met	Met	Ala
225					230					235					240
Pro	Lys	Pro	Gly	Leu	Asp	Phe	Ser	Pro	Phe	Asp	Phe	Ala	His	Phe	Gly
				245					250					255	
Phe	Pro	Ser	Asp	Asn	Ser	Gly	Lys	Glu	Arg	Ser	Phe	Gln	Ala	Lys	Pro
			260					265					270		
Ser	Pro	Lys	Leu	Gly	Arg	His	Val	Tyr	Ser	Arg	Pro	Lys	Val	Asp	Ile
		275					280					285			
Gln	Lys	Ile	Cys	Ile	Gly	Asn	Lys	Asn	Ile	Phe	Thr	Val	Ser	Asp	Leu
	290					295					300				
Lys	Pro	Asp	Thr	Gln	Tyr	Tyr	Phe	Asp	Val	Phe	Val	Val	Asn	Ile	Asn
305				310						315				320	
Ser	Asn	Met	Ser	Thr	Ala	Tyr	Val	Gly	Thr	Phe	Ala	Arg	Thr	Lys	Glu
				325					330					335	
Glu	Ala	Lys	Gln	Lys	Thr	Val	Glu	Leu	Lys	Asp	Gly	Lys	Ile	Thr	Asp
			340					345					350		
Val	Phe	Val	Lys	Arg	Lys	Gly	Ala	Lys	Phe	Leu	Arg	Phe	Ala	Pro	Val
		355					360					365			
Ser	Ser	His	Gln	Lys	Val	Thr	Phe	Phe	Ile	His	Ser	Cys	Leu	Asp	Ala
		370					375					380			
Val	Gln	Ile	Gln	Val	Arg	Arg	Asp	Gly	Lys	Leu	Leu	Leu	Ser	Gln	Asn
385				390						395				400	
Val	Glu	Gly	Ile	Gln	Gln	Phe	Gln	Leu	Arg	Gly	Lys	Pro	Lys	Ala	Lys
				405				410						415	
Tyr	Leu	Val	Arg	Leu	Lys	Gly	Asn	Lys	Lys	Gly	Ala	Ser	Met	Leu	Lys
			420					425					430		
Ile	Leu	Ala	Thr	Thr	Arg	Pro	Thr	Lys	Gln	Ser	Phe	Pro	Ser	Leu	Pro
		435					440					445			
Glu	Asp	Thr	Arg	Ile	Lys	Ala	Phe	Asp	Lys	Leu	Arg	Thr	Cys	Ser	Ser
	450					455					460				
Ala	Thr	Val	Ala	Trp	Leu	Gly	Thr	Gln	Glu	Arg	Asn	Lys	Phe	Cys	
465				470					475						

<210> 232

<211> 62

<212> PRT

<213> Homo sapiens

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<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 232

Xaa Arg Gly Met Val Phe Gly Gly Val Val Pro Tyr Val Pro Gln Tyr
 1 5 10 15

Arg Asp Ile Arg Arg Thr Gln Asn Ala Asp Gly Phe Ser Thr Tyr Val
 20 25 30

Cys Leu Val Leu Leu Val Ala Asn Ile Leu Arg Ile Leu Phe Trp Phe
 35 40 45

Gly Arg Arg Phe Glu Ser Pro Leu Leu Trp Gln Ser Ala Ile
 50 55 60

<210> 233

<211> 229

<212> PRT

<213> Homo sapiens

<400> 233

Met Val Phe Gly Gly Val Val Pro Tyr Val Pro Gln Tyr Arg Asp Ile
 1 5 10 15

Arg Arg Thr Gln Asn Ala Asp Gly Phe Ser Thr Tyr Val Cys Leu Val
 20 25 30

Leu Leu Val Ala Asn Ile Leu Arg Ile Leu Phe Trp Phe Gly Arg Arg
 35 40 45

Phe Glu Ser Pro Leu Leu Trp Gln Ser Ala Ile Met Ile Leu Thr Met
 50 55 60

Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg Val Ala Asn Glu Leu
 65 70 75 80

Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp Pro His His Phe Trp
 85 90 95

Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys Val Leu Ala Phe Thr
 100 105 110

Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile Asp Ser Ala Leu Phe
 115 120 125

Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr Glu Ala Met Leu Gly
 130 135 140

Val Pro Gln Leu Tyr Arg Asn His Arg His Gln Ser Thr Glu Gly Met
 145 150 155 160

Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly Asp Ala Phe Lys Thr
 165 170 175

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Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln Phe Ser Val Cys Gly
 180 185 190

Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu Gly Gln Ala Tyr Ala
 195 200 205

Phe Ala Arg His Pro Gln Lys Pro Ala Pro His Ala Val His Pro Thr
 210 215 220

Gly Thr Lys Ala Leu
 225

<210> 234

<211> 28

<212> PRT

<213> Homo sapiens

<400> 234

Met Val Phe Gly Gly Val Val Pro Tyr Val Pro Gln Tyr Arg Asp Ile
 1 5 10 15

Arg Arg Thr Gln Asn Ala Asp Gly Phe Ser Thr Tyr
 20 25

<210> 235

<211> 12

<212> PRT

<213> Homo sapiens

<400> 235

Gly Arg Arg Phe Glu Ser Pro Leu Leu Trp Gln Ser
 1 5 10

<210> 236

<211> 44

<212> PRT

<213> Homo sapiens

<400> 236

Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln Ser Thr Glu Gly
 1 5 10 15

Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly Asp Ala Phe Lys
 20 25 30

Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln
 35 40

<210> 237

<211> 25

<212> PRT

<213> Homo sapiens

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<400> 237

Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His Ala
 1 5 10 15

Val His Pro Thr Gly Thr Lys Ala Leu
 20 25

<210> 238

<211> 32

<212> PRT

<213> Homo sapiens

<400> 238

Arg Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe
 1 5 10 15

Asp Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln
 20 25 30

<210> 239

<211> 383

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 239

Arg Thr Gly Trp Leu Gly Pro Pro Gly Ser Pro Pro Pro Pro His
 1 5 10 15

Val Arg Gly Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly
 20 25 30

Pro Arg Leu Leu Phe Leu Xaa Ala Leu Ala Leu Glu Leu Leu Gly Arg
 35 40 45

Ala Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr Ala Thr Ala
 50 55 60

Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala Leu Leu Ser
 65 70 75 80

Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly Ser Leu Met
 85 90 95

Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro Leu Glu Met
 100 105 110

Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu Lys Gln Leu
 115 120 125

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Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn Val Phe Leu His Leu
 130 135 140
 Leu Pro Glu Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro Gly Gly Glu
 145 150 155 160
 Gly Gln Ser Leu Gln Gln Gln Gln Leu Gly Leu Trp Val Ile Ala
 165 170 175
 Gly Ile Leu Thr Phe Leu Ala Leu Glu Lys Met Phe Leu Asp Ser Lys
 180 185 190
 Glu Glu Gly Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr Ala Ala Ala
 195 200 205
 Ala Ala Leu Asn Gly Gly His Cys Leu Ala Gln Pro Ala Ala Glu Pro
 210 215 220
 Gly Leu Gly Ala Val Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn
 225 230 235 240
 Leu Leu Ala Asn Thr Ile Asp Asn Phe Thr His Gly Leu Ala Val Ala
 245 250 255
 Ala Ser Phe Leu Val Ser Lys Lys Ile Gly Leu Leu Thr Thr Met Ala
 260 265 270
 Ile Leu Leu His Glu Ile Pro His Glu Val Gly Asp Phe Ala Ile Leu
 275 280 285
 Leu Arg Ala Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu Gln Leu Ser
 290 295 300
 Thr Ala Leu Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile Cys Thr Gln
 305 310 315 320
 Ser Pro Lys Gly Val Glu Glu Thr Ala Ala Trp Val Leu Pro Phe Thr
 325 330 335
 Ser Gly Gly Phe Leu Tyr Ile Ala Leu Val Asn Val Leu Pro Asp Leu
 340 345 350
 Leu Glu Glu Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu Leu Leu Leu
 355 360 365
 Cys Ala Gly Ile Val Val Met Val Leu Phe Ser Leu Phe Val Asp
 370 375 380

<210> 240

<211> 24

<212> PRT

<213> Homo sapiens

<400> 240

Arg Val Arg Lys Trp Glu Arg Ser Gln Pro Arg Leu Leu Tyr Thr Gly
 1 5 10 15

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Lys Leu Ser Gly Pro Gln Ala Arg
20

<210> 241
<211> 97
<212> PRT
<213> Homo sapiens

<400> 241
Ser Pro Ala Trp Ala Gln Leu Pro Gln Ser His Pro Leu Pro Thr Ala
1 5 10 15
Ser Gly Leu Lys Asn Ile Pro Gly Ile Arg Gly Ala Leu Thr Thr Arg
20 25 30
Pro Ser Glu Ser Pro Pro Ala Trp Asn Leu Ala Ile Ser Asn Leu Leu
35 40 45
Pro Ser Ala Ser Trp Ile Lys Leu Glu Thr Ala Gly Thr Pro Gly Met
50 55 60
Ser Leu Pro Ile Leu Pro Cys Leu Cys Ser Phe Leu Asp Leu Thr Tyr
65 70 75 80
Tyr Phe Phe Cys Phe Cys Phe His Pro Ser Cys Leu Ser Cys Pro Glu
85 90 95
Gly

<210> 242
<211> 36
<212> PRT
<213> Homo sapiens

<400> 242
Arg Pro Ser Glu Ser Pro Pro Ala Trp Asn Leu Ala Ile Ser Asn Leu
1 5 10 15
Leu Pro Ser Ala Ser Trp Ile Lys Leu Glu Thr Ala Gly Thr Pro Gly
20 25 30
Met Ser Leu Pro
35

<210> 243
<211> 30
<212> PRT
<213> Homo sapiens

<400> 243
Ile Leu Pro Cys Leu Cys Ser Phe Leu Asp Leu Thr Tyr Tyr Phe Phe
1 5 10 15

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Cys Phe Cys Phe His Pro Ser Cys Leu Ser Cys Pro Glu Gly
 20 25 30

<210> 244
 <211> 203
 <212> PRT
 <213> Homo sapiens

<400> 244
 Met Gly Arg Asp Ile Pro Gly Val Pro Ala Val Ser Ser Leu Ile Gln
 1 5 10 15

Glu Ala Leu Gly Arg Arg Leu Leu Met Ala Arg Phe Gln Ala Gly Gly
 20 25 30

Asp Ser Glu Gly Arg Val Val Asn Ala Pro Leu Ile Pro Gly Ile Phe
 35 40 45

Phe Arg Pro Glu Ala Val Gly Arg Gly Trp Leu Cys Gly Ser Trp Ala
 50 55 60

Gln Ala Gly Leu Gln Asn His Pro Leu Trp Gly Asp Asp Gly Gly Gln
 65 70 75 80

Phe Gln Gly Pro Pro Ala Ile His Trp Ala Val Trp Leu Arg Leu Ser
 85 90 95

Ala Val Ala Thr Glu Ala Leu Ser Gln Ala Thr Asp Ala Lys Asp Gly
 100 105 110

Gln Asp Asp Gln Glu Asp Asp Asp Glu Asp Pro His Gly Ala Arg Glu
 115 120 125

Glu Leu Val Leu Leu Ala Ala Ala Val Thr Thr Ala Phe Glu Ser Phe
 130 135 140

Gly Ala Gly Lys Asp Glu Thr Thr Phe Gly Cys Asn Leu Leu Gly Ala
 145 150 155 160

Ser Gln Gln Ala Glu Gln Gln Gly Gly Arg Glu Ala Gly Asp Pro Ser
 165 170 175

Leu Gly His Pro Gly Leu Gly Ala Thr Glu Leu Ser Cys Val Glu Lys
 180 185 190

Ala Gly Leu Arg Pro Leu Pro Leu Pro Asp Ala
 195 200

<210> 245
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 245
 Ala Arg Ala Ala Arg Gly Lys Ile Glu Ser Asn Leu Ile
 1 5 10

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<210> 246
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 246
 Gly Pro Gln Val Asp Trp Gln Arg Pro Leu
 1 5 10

<210> 247
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 247
 His Met Leu Trp Asn Arg Arg Lys Leu Arg Cys Cys Phe His Lys Phe
 1 5 10 15
 Val Leu Ser Leu Ala Leu Gly Pro Ser Phe Leu Phe Trp Lys Asn Leu
 20 25 30
 Ser Glu Lys Arg Asp Leu Ser Ser Val Cys Ser Ala Phe Leu Tyr Lys
 35 40 45
 Thr Arg Asn Gly Val Asn Ser Arg Asp Met Glu Val Ile Thr Pro Asp
 50 55 60
 Ser Leu Cys Trp Leu Leu Arg Phe Ser Gln Gly Glu Val
 65 70 75

<210> 248
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 248
 Met Leu Leu Leu Gln Ser Leu Phe Phe Pro Met Ser Trp Gly Ser Gly
 1 5 10 15
 Gly Gly Gly Lys Gly Arg Asp Asp Leu Pro Arg Glu Lys Pro Thr Thr
 20 25 30
 Cys Pro Val Phe Asp Arg Leu Phe Asp Ile Phe Ala Lys Ile Pro Leu
 35 40 45
 Val Glu Ser Gln Ala Ser Cys Ala Arg Ile Gly Ile Ala Ala Ser His
 50 55 60
 Trp Arg Leu Asp Cys Ser Val Asp Gly Met Gln Ala
 65 70 75

<210> 249
 <211> 284

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<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (187)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 249

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Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val
 1           5           10           15

Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp
          20           25           30

Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys
          35           40           45

Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu
 50           55           60

Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly
 65           70           75           80

Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Arg Ile Ser Ala
          85           90           95

Leu Lys Val Gly Ala Asp Leu Ser His Val Phe Cys Ala Ser Ala Ala
          100          105          110

Ala Pro Val Ile Lys Ala Tyr Ser Pro Glu Leu Ile Val His Pro Val
          115          120          125

Leu Asp Ser Pro Asn Ala Val His Glu Val Glu Lys Trp Leu Pro Arg
          130          135          140

Leu His Ala Leu Val Val Gly Pro Gly Leu Gly Arg Asp Asp Ala Leu
          145          150          155          160

Leu Arg Asn Val Gln Gly Ile Leu Glu Val Ser Lys Ala Arg Asp Ile
          165          170          175

Pro Val Val Ile Asp Ala Asp Gly Leu Trp Xaa Val Ala Gln Gln Pro
          180          185          190

Ala Leu Ile His Gly Tyr Arg Lys Ala Val Leu Thr Pro Asn His Val
          195          200          205

Glu Phe Ser Arg Leu Tyr Asp Ala Val Leu Arg Gly Pro Met Asp Ser
          210          215          220

Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser Gln Ala Leu Gly Asn
          225          230          235          240

Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile Leu Ser Asn Gly Gln
          245          250          255

Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser Ala Gly Val Glu Gly
  
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260

265

270

Lys Gly Thr Ser Cys Arg Ala Pro Trp Ala Ser Trp
 275 280

<210> 250

<211> 114

<212> PRT

<213> Homo sapiens

<400> 250

Met Ala Trp Val Glu Met Ile Val His Pro Val Leu Asp Ser Pro Asn
 1 5 10 15

Ala Val His Glu Val Glu Lys Trp Leu Pro Arg Leu His Ala Leu Val
 20 25 30

Val Gly Thr Gly Leu Gly Arg Asp Asp Ala Leu Leu Arg Asn Val Gln
 35 40 45

Gly Ile Leu Glu Val Ser Lys Ala Arg Asp Ile Pro Val Val Ile Asp
 50 55 60

Ala Asp Gly Leu Trp Leu Val Ala Gln Gln Pro Ala Leu Ile His Gly
 65 70 75 80

Tyr Arg Lys Ala Val Leu Thr Pro Asn His Val Glu Phe Ser Arg Leu
 85 90 95

Tyr Asp Ala Val Leu Arg Gly Pro Met Asp Ser Asp Asp Arg Cys Leu
 100 105 110

Val Pro

<210> 251

<211> 202

<212> PRT

<213> Homo sapiens

<400> 251

Glu Phe Gly Thr Arg Leu Arg Ala Val Ala Ser Val Gly Ala Ala Leu
 1 5 10 15

Ile Leu Phe Pro Cys Leu Leu Tyr Gly Ala Tyr Ala Phe Leu Pro Phe
 20 25 30

Asp Val Pro Arg Leu Pro Thr Met Ser Ser Arg Leu Ile Tyr Thr Leu
 35 40 45

Arg Cys Gly Val Phe Ala Thr Phe Pro Ile Val Leu Gly Ile Leu Val
 50 55 60

Tyr Gly Leu Ser Leu Leu Cys Phe Ser Ala Leu Arg Pro Phe Gly Glu
 65 70 75 80

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Pro Arg Arg Glu Val Glu Ile His Arg Arg Tyr Val Ala Gln Ser Val
85 90 95

Gln Leu Phe Ile Leu Tyr Phe Phe Asn Leu Ala Val Leu Ser Thr Tyr
100 105 110

Leu Pro Gln Asp Thr Leu Lys Leu Leu Pro Leu Leu Thr Gly Leu Phe
115 120 125

Ala Val Ser Arg Leu Ile Tyr Trp Leu Thr Phe Ala Val Gly Arg Ser
130 135 140

Phe Arg Gly Phe Gly Tyr Gly Leu Thr Phe Leu Pro Leu Leu Ser Met
145 150 155 160

Leu Met Trp Asn Leu Tyr Tyr Met Phe Val Val Glu Pro Glu Arg Met
165 170 175

Leu Thr Ala Thr Glu Ser Arg Leu Asp Tyr Pro Asp His Ala Arg Ser
180 185 190

Ala Ser Asp Tyr Arg Pro Arg Pro Trp Gly
195 200

<210> 252

<211> 22

<212> PRT

<213> Homo sapiens

<400> 252

Thr Trp Gly His Val His Thr Thr Ala Arg Ala Tyr Cys Val Ser Arg
1 5 10 15

Trp Leu Val Cys Leu Arg
20

<210> 253

<211> 30

<212> PRT

<213> Homo sapiens

<400> 253

Gly Thr Ser Phe Ser Ile Leu Ser Leu Ala Ala Cys Leu Val Val Glu
1 5 10 15

Ala Val Val Trp Lys Ser Val Thr Lys Asn Arg Thr Ser Tyr
20 25 30

<210> 254

<211> 241

<212> PRT

<213> Homo sapiens

<400> 254

His Trp Gly Leu Met Leu Phe Tyr Arg Leu Val Phe Ile Leu His Glu

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1 5 10 15
 Thr Ser Arg Ser Thr Gln Lys Ala Ile Ala Phe Cys Leu Gly Tyr Gly
 20 25 30
 Cys Pro Leu Ala Ile Ser Val Ile Thr Leu Gly Ala Thr Gln Pro Arg
 35 40 45
 Glu Val Tyr Thr Arg Lys Asn Val Cys Trp Leu Asn Trp Glu Asp Thr
 50 55 60
 Lys Ala Leu Leu Ala Phe Ala Ile Pro Ala Leu Ile Ile Val Val Val
 65 70 75 80
 Asn Ile Thr Ile Thr Ile Val Val Ile Thr Lys Ile Leu Arg Pro Ser
 85 90 95
 Ile Gly Asp Lys Pro Cys Lys Gln Glu Lys Ser Ser Leu Phe Gln Ile
 100 105 110
 Ser Lys Ser Ile Gly Val Leu Thr Pro Leu Leu Gly Leu Thr Trp Gly
 115 120 125
 Phe Gly Leu Thr Thr Val Phe Pro Gly Thr Asn Leu Val Phe His Ile
 130 135 140
 Ile Phe Ala Ile Leu Asn Val Phe Gln Gly Leu Phe Ile Leu Leu Phe
 145 150 155 160
 Gly Cys Leu Trp Asp Leu Lys Val Gln Glu Ala Leu Leu Asn Lys Phe
 165 170 175
 Ser Leu Ser Arg Trp Ser Ser Gln His Ser Lys Ser Thr Ser Leu Gly
 180 185 190
 Ser Ser Thr Pro Val Phe Ser Met Ser Ser Pro Ile Ser Arg Arg Phe
 195 200 205
 Asn Asn Leu Phe Gly Lys Thr Gly Thr Tyr Asn Val Ser Thr Pro Glu
 210 215 220
 Ala Thr Ser Ser Ser Leu Glu Asn Ser Ser Ser Ala Ser Ser Leu Leu
 225 230 235 240
 Asn

<210> 255

<211> 36

<212> PRT

<213> Homo sapiens

<400> 255

His Trp Gly Leu Met Leu Phe Tyr Arg Leu Val Phe Ile Leu His Glu
 1 5 10 15

Thr Ser Arg Ser Thr Gln Lys Ala Ile Ala Phe Cys Leu Gly Tyr Gly

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20

25

30

Cys Pro Leu Ala
35

<210> 256
<211> 35
<212> PRT
<213> Homo sapiens

<400> 256
Ile Ser Val Ile Thr Leu Gly Ala Thr Gln Pro Arg Glu Val Tyr Thr
1 5 10 15
Arg Lys Asn Val Cys Trp Leu Asn Trp Glu Asp Thr Lys Ala Leu Leu
20 25 30

Ala Phe Ala
35

<210> 257
<211> 35
<212> PRT
<213> Homo sapiens

<400> 257
Ile Pro Ala Leu Ile Ile Val Val Val Asn Ile Thr Ile Thr Ile Val
1 5 10 15
Val Ile Thr Lys Ile Leu Arg Pro Ser Ile Gly Asp Lys Pro Cys Lys
20 25 30

Gln Glu Lys
35

<210> 258
<211> 36
<212> PRT
<213> Homo sapiens

<400> 258
Ser Ser Leu Phe Gln Ile Ser Lys Ser Ile Gly Val Leu Thr Pro Leu
1 5 10 15
Leu Gly Leu Thr Trp Gly Phe Gly Leu Thr Thr Val Phe Pro Gly Thr
20 25 30

Asn Leu Val Phe
35

<210> 259
<211> 36
<212> PRT
<213> Homo sapiens

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<400> 259

His Ile Ile Phe Ala Ile Leu Asn Val Phe Gln Gly Leu Phe Ile Leu
 1 5 10 15

Leu Phe Gly Cys Leu Trp Asp Leu Lys Val Gln Glu Ala Leu Leu Asn
 20 25 30

Lys Phe Ser Leu
 35

<210> 260

<211> 35

<212> PRT

<213> Homo sapiens

<400> 260

Ser Arg Trp Ser Ser Gln His Ser Lys Ser Thr Ser Leu Gly Ser Ser
 1 5 10 15

Thr Pro Val Phe Ser Met Ser Ser Pro Ile Ser Arg Arg Phe Asn Asn
 20 25 30

Leu Phe Gly
 35

<210> 261

<211> 28

<212> PRT

<213> Homo sapiens

<400> 261

Lys Thr Gly Thr Tyr Asn Val Ser Thr Pro Glu Ala Thr Ser Ser Ser
 1 5 10 15

Leu Glu Asn Ser Ser Ser Ala Ser Ser Leu Leu Asn
 20 25

<210> 262

<211> 237

<212> PRT

<213> Homo sapiens

<400> 262

Met Leu Phe Tyr Arg Leu Val Phe Ile Leu His Glu Thr Ser Arg Ser
 1 5 10 15

Thr Gln Lys Ala Ile Ala Phe Cys Leu Gly Tyr Gly Cys Pro Leu Ala
 20 25 30

Ile Ser Val Ile Thr Leu Gly Ala Thr Gln Pro Arg Glu Val Tyr Thr
 35 40 45

Arg Lys Asn Val Cys Trp Leu Asn Trp Glu Asp Thr Lys Ala Leu Leu
 50 55 60

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Ala Phe Ala Ile Pro Ala Leu Ile Ile Val Val Val Asn Ile Thr Ile
65 70 75 80

Thr Ile Val Val Ile Thr Lys Ile Leu Arg Pro Ser Ile Gly Asp Lys
85 90 95

Pro Cys Lys Gln Glu Lys Ser Ser Leu Phe Gln Ile Ser Lys Ser Ile
100 105 110

Gly Val Leu Thr Pro Leu Leu Gly Leu Thr Trp Gly Phe Gly Leu Thr
115 120 125

Thr Val Phe Pro Gly Thr Asn Leu Val Phe His Ile Ile Phe Ala Ile
130 135 140

Leu Asn Val Phe Gln Gly Leu Phe Ile Leu Leu Phe Gly Cys Leu Trp
145 150 155 160

Asp Leu Lys Val Gln Glu Ala Leu Leu Asn Lys Phe Ser Leu Ser Arg
165 170 175

Trp Ser Ser Gln His Ser Lys Ser Thr Ser Leu Gly Ser Ser Thr Pro
180 185 190

Val Phe Ser Met Ser Ser Pro Ile Ser Arg Arg Phe Asn Asn Leu Phe
195 200 205

Gly Lys Thr Gly Thr Tyr Asn Val Ser Thr Pro Glu Ala Thr Ser Ser
210 215 220

Ser Leu Glu Asn Ser Ser Ser Ala Ser Ser Leu Leu Asn
225 230 235

<210> 263
<211> 150
<212> PRT
<213> Homo sapiens

<400> 263
Met Glu His Lys Val Gly Pro Trp Glu His Ser Gly Glu Thr Lys Thr
1 5 10 15

Pro Ser Glu Ala Gln Glu Trp Cys Glu Asp Pro Asn Ala Leu Ala Asp
20 25 30

Leu Lys Gln Ala Ala Leu Leu Leu Leu Ala Trp Leu Val Ser Asn Gly
35 40 45

Arg Pro Gln Asp Leu Gly Asp Asp His Asn Ser Asp Gly Tyr Val His
50 55 60

His His Asn Asp Gln Cys Trp Asp Gly Glu Ser Gln Gln Gly Leu Gly
65 70 75 80

Val Leu Pro Val Glu Pro Thr Asp Ile Leu Pro Arg Ile Asp Phe Pro
85 90 95

Gly Leu Gly Gly Ser Gln Arg Asp Asp Arg Asp Gly Lys Trp Ala Ala
 100 105 110

Ile Ala Lys Thr Glu Gly Asn Gly Phe Leu Ser Gly Pro Ala Cys Phe
 115 120 125

Met Gln Asn Glu Asn Gln Ala Ile Glu Gln His Glu Ala Pro Val Ser
 130 135 140

Ala Ser Arg Arg Arg Arg
 145 150

<210> 264

<211> 14

<212> PRT

<213> Homo sapiens

<400> 264

Thr Arg Pro Leu Trp Ile Pro Arg Ser Leu Val Leu Val Glu
 1 5 10

<210> 265

<211> 43

<212> PRT

<213> Homo sapiens

<400> 265

Glu Lys Val Gly Leu Leu Pro Thr Thr Ile Ala Ile Ile Gln Ile Ile
 1 5 10 15

Ser Lys Asp Ser Val Ser Ala Ile Ser Asp Ser Cys Leu Arg Pro Ser
 20 25 30

Glu Arg Gly Phe Gly Arg Leu Leu Lys Gln Arg
 35 40

<210> 266

<211> 211

<212> PRT

<213> Homo sapiens

<400> 266

Arg Gly Glu Ser Glu Glu Thr Gly Ser Ser Glu Gly Ala Pro Ser Leu
 1 5 10 15

Leu Pro Ala Thr Arg Ala Pro Glu Gly Thr Arg Glu Leu Glu Ala Pro
 20 25 30

Ser Glu Asp Asn Ser Gly Arg Thr Ala Pro Ala Gly Thr Ser Val Gln
 35 40 45

Ala Gln Pro Val Leu Pro Thr Asp Ser Ala Ser Arg Gly Gly Val Ala
 50 55 60

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Val Val Pro Ala Ser Gly Asp Cys Val Pro Ser Pro Cys His Asn Gly
65 70 75 80

Gly Thr Cys Leu Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro
85 90 95

Gly Tyr Gly Gly Asp Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro
100 105 110

Gly Trp Asp Ala Phe Gln Gly Ala Cys Tyr Lys His Phe Ser Thr Arg
115 120 125

Arg Ser Trp Glu Glu Ala Glu Thr Gln Cys Arg Met Tyr Gly Ala His
130 135 140

Leu Ala Ser Ile Ser Thr Pro Glu Glu Gln Asp Phe Ile Asn Asn Arg
145 150 155 160

Tyr Arg Glu Tyr Gln Trp Ile Gly Leu Asn Asp Arg Thr Ile Glu Gly
165 170 175

Asp Phe Leu Trp Ser Asp Gly Val Pro Leu Leu Tyr Glu Asn Trp Asn
180 185 190

Pro Gly Gln Pro Asp Ser Tyr Phe Leu Ser Gly Glu Asn Cys Val Val
195 200 205

Thr Arg Ala
210

<210> 267

<211> 42

<212> PRT

<213> Homo sapiens

<400> 267

Arg Gly Glu Ser Glu Glu Thr Gly Ser Ser Glu Gly Ala Pro Ser Leu
1 5 10 15

Leu Pro Ala Thr Arg Ala Pro Glu Gly Thr Arg Glu Leu Glu Ala Pro
20 25 30

Ser Glu Asp Asn Ser Gly Arg Thr Ala Pro
35 40

<210> 268

<211> 40

<212> PRT

<213> Homo sapiens

<400> 268

Ala Gly Thr Ser Val Gln Ala Gln Pro Val Leu Pro Thr Asp Ser Ala
1 5 10 15

Ser Arg Gly Gly Val Ala Val Val Pro Ala Ser Gly Asp Cys Val Pro
20 25 30

Ser Pro Cys His Asn Gly Gly Thr
 35 40

<210> 269
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 269
 Cys Leu Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro Gly Tyr
 1 5 10 15
 Gly Gly Asp Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro Gly Trp
 20 25 30

Asp Ala Phe Gln Gly Ala Cys Tyr Lys His Phe
 35 40

<210> 270
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 270
 Ser Thr Arg Arg Ser Trp Glu Glu Ala Glu Thr Gln Cys Arg Met Tyr
 1 5 10 15
 Gly Ala His Leu Ala Ser Ile Ser Thr Pro Glu Glu Gln Asp Phe Ile
 20 25 30

Asn Asn Arg Tyr Arg Glu Tyr Gln Trp Ile Gly
 35 40

<210> 271
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 271
 Leu Asn Asp Arg Thr Ile Glu Gly Asp Phe Leu Trp Ser Asp Gly Val
 1 5 10 15
 Pro Leu Leu Tyr Glu Asn Trp Asn Pro Gly Gln Pro Asp Ser Tyr Phe
 20 25 30

Leu Ser Gly Glu Asn Cys Val Val Thr Arg Ala
 35 40

<210> 272
 <211> 483
 <212> PRT
 <213> Homo sapiens

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<400> 272

Met Ala Val Cys Ala Thr Pro Ser Ser His Pro Ala Ser Ala Val Val
 1 5 10 15

Gly Ala Cys Leu Val Ser Arg Leu Ser Ser Ser Ser Pro Thr Arg Leu
 20 25 30

Ala Ser Pro Ile Ser Thr Ala Ala Ser Thr Ser Thr Ala Ser Glu Thr
 35 40 45

Arg Pro Ser Leu Ser Ala Ile Pro Glu Ala Ser Asn Pro Ala Ser Asn
 50 55 60

Pro Ala Ser Asp Gly Leu Glu Ala Ile Val Thr Val Thr Glu Thr Leu
 65 70 75 80

Glu Glu Leu Gln Leu Pro Gln Glu Ala Thr Glu Ser Glu Ser Arg Gly
 85 90 95

Ala Ile Tyr Ser Ile Pro Ile Met Glu Asp Gly Gly Gly Gly Ser Ser
 100 105 110

Thr Pro Glu Asp Pro Ala Glu Ala Pro Arg Thr Leu Leu Glu Phe Glu
 115 120 125

Thr Gln Ser Met Val Pro Pro Thr Gly Phe Ser Glu Glu Glu Gly Lys
 130 135 140

Ala Leu Glu Glu Glu Glu Lys Tyr Glu Asp Glu Glu Glu Lys Glu Glu
 145 150 155 160

Glu Glu Glu Glu Glu Glu Val Glu Asp Glu Ala Leu Trp Ala Trp Pro
 165 170 175

Ser Glu Leu Ser Ser Pro Gly Pro Glu Ala Ser Leu Pro Thr Glu Pro
 180 185 190

Ala Ala Gln Glu Glu Ser Leu Ser Gln Ala Pro Ala Arg Ala Val Leu
 195 200 205

Gln Pro Gly Ala Ser Pro Leu Pro Asp Gly Glu Ser Glu Ala Ser Arg
 210 215 220

Pro Pro Arg Val His Gly Pro Pro Thr Glu Thr Leu Pro Thr Pro Arg
 225 230 235 240

Glu Arg Asn Leu Ala Ser Pro Ser Pro Ser Thr Leu Val Glu Ala Arg
 245 250 255

Glu Val Gly Glu Ala Thr Gly Gly Pro Glu Leu Ser Gly Val Pro Arg
 260 265 270

Gly Glu Ser Glu Glu Thr Gly Ser Ser Glu Gly Ala Pro Ser Leu Leu
 275 280 285

Pro Ala Thr Arg Ala Pro Glu Gly Thr Arg Glu Leu Glu Ala Pro Ser
 290 295 300

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Glu Asp Asn Ser Gly Arg Thr Ala Pro Ala Gly Thr Ser Val Gln Ala
 305 310 315 320
 Gln Pro Val Leu Pro Thr Asp Ser Ala Ser Arg Gly Gly Val Ala Val
 325 330 335
 Val Pro Ala Ser Gly Asp Cys Val Pro Ser Pro Cys His Asn Gly Gly
 340 345 350
 Thr Cys Leu Glu Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro Gly
 355 360 365
 Tyr Gly Gly Asp Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro Gly
 370 375 380
 Trp Asp Ala Phe Gln Gly Ala Cys Tyr Lys His Phe Ser Thr Arg Arg
 385 390 395 400
 Ser Trp Glu Glu Ala Glu Thr Gln Cys Arg Met Tyr Gly Ala His Leu
 405 410 415
 Ala Ser Ile Ser Thr Pro Glu Glu Gln Asp Phe Ile Asn Asn Arg Tyr
 420 425 430
 Arg Glu Tyr Gln Trp Ile Gly Leu Asn Asp Arg Thr Ile Glu Gly Asp
 435 440 445
 Phe Leu Trp Ser Asp Gly Val Pro Leu Leu Tyr Glu Asn Trp Asn Pro
 450 455 460
 Gly Gln Pro Asp Ser Tyr Phe Leu Ser Gly Glu Asn Cys Val Val Thr
 465 470 475 480
 Arg Val Ala

<210> 273

<211> 427

<212> PRT

<213> Homo sapiens

<400> 273

Ser Ala Ile Pro Glu Ala Ser Asn Pro Ala Ser Asn Pro Ala Ser Asp
 1 5 10 15

Gly Leu Glu Ala Ile Val Thr Val Thr Glu Thr Leu Glu Glu Leu Gln
 20 25 30

Leu Pro Gln Glu Ala Thr Glu Ser Glu Ser Arg Gly Ala Ile Tyr Ser
 35 40 45

Ile Pro Ile Met Glu Asp Gly Gly Gly Gly Ser Ser Thr Pro Glu Asp
 50 55 60

Pro Ala Glu Ala Pro Arg Thr Leu Leu Glu Phe Glu Thr Gln Ser Met
 65 70 75 80

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Val Pro Pro Thr Gly Phe Ser Glu Glu Glu Gly Lys Ala Leu Glu Glu
 85 90 95
 Glu Glu Lys Tyr Glu Asp Glu Glu Glu Lys Glu Glu Glu Glu Glu Glu
 100 105 110
 Glu Glu Val Glu Asp Glu Ala Leu Trp Ala Trp Pro Ser Glu Leu Ser
 115 120 125
 Ser Pro Gly Pro Glu Ala Ser Leu Pro Thr Glu Pro Ala Ala Gln Glu
 130 135 140
 Glu Ser Leu Ser Gln Ala Pro Ala Arg Ala Val Leu Gln Pro Gly Ala
 145 150 155 160
 Ser Pro Leu Pro Asp Gly Glu Ser Glu Ala Ser Arg Pro Pro Arg Val
 165 170 175
 His Gly Pro Pro Thr Glu Thr Leu Pro Thr Pro Arg Glu Arg Asn Leu
 180 185 190
 Ala Ser Pro Ser Pro Ser Thr Leu Val Glu Ala Arg Glu Val Gly Glu
 195 200 205
 Ala Thr Gly Gly Pro Glu Leu Ser Gly Val Pro Arg Gly Glu Ser Glu
 210 215 220
 Glu Thr Gly Ser Ser Glu Gly Ala Pro Ser Leu Leu Pro Ala Thr Arg
 225 230 235 240
 Ala Pro Glu Gly Thr Arg Glu Leu Glu Ala Pro Ser Glu Asp Asn Ser
 245 250 255
 Gly Arg Thr Ala Pro Ala Gly Thr Ser Val Gln Ala Gln Pro Val Leu
 260 265 270
 Pro Thr Asp Ser Ala Ser Arg Gly Gly Val Ala Val Val Pro Ala Ser
 275 280 285
 Gly Asp Cys Val Pro Ser Pro Cys His Asn Gly Gly Thr Cys Leu Glu
 290 295 300
 Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro Gly Tyr Gly Gly Asp
 305 310 315 320
 Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro Gly Trp Asp Ala Phe
 325 330 335
 Gln Gly Ala Cys Tyr Lys His Phe Ser Thr Arg Arg Ser Trp Glu Glu
 340 345 350
 Ala Glu Thr Gln Cys Arg Met Tyr Gly Ala His Leu Ala Ser Ile Ser
 355 360 365
 Thr Pro Glu Glu Gln Asp Phe Ile Asn Asn Arg Tyr Arg Glu Tyr Gln
 370 375 380
 Trp Ile Gly Leu Asn Asp Arg Thr Ile Glu Gly Asp Phe Leu Trp Ser

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385 390 395 400

Asp Gly Val Pro Leu Leu Tyr Glu Asn Trp Asn Pro Gly Gln Pro Asp
 405 410 415

Ser Tyr Phe Leu Ser Gly Glu Asn Cys Val Val
 420 425

<210> 274
 <211> 196
 <212> PRT
 <213> Homo sapiens

<400> 274
 Met Ala Gln Leu Phe Leu Pro Leu Leu Ala Ala Leu Val Leu Ala Gln
 1 5 10 15

Ala Pro Ala Ala Leu Ala Asp Val Leu Glu Gly Asp Ser Ser Glu Asp
 20 25 30

Arg Ala Phe Arg Val Arg Ile Ala Gly Asp Ala Pro Leu Gln Gly Val
 35 40 45

Leu Gly Gly Ala Leu Thr Ile Pro Cys His Val His Tyr Leu Arg Pro
 50 55 60

Pro Pro Ser Arg Arg Ala Val Leu Gly Ser Pro Arg Val Lys Trp Thr
 65 70 75 80

Phe Leu Ser Arg Gly Arg Glu Ala Glu Val Leu Val Ala Arg Gly Val
 85 90 95

Arg Val Lys Val Asn Glu Ala Tyr Arg Phe Arg Val Ala Leu Pro Ala
 100 105 110

Tyr Pro Ala Ser Leu Thr Asp Val Ser Leu Ala Leu Ser Glu Leu Arg
 115 120 125

Pro Asn Asp Ser Gly Ile Tyr Arg Cys Glu Val Gln His Gly Ile Asp
 130 135 140

Asp Ser Ser Asp Ala Val Glu Val Lys Val Lys Gly Ile Pro Ser Arg
 145 150 155 160

Pro His Glu Arg Pro Val Thr Glu Thr Trp Met Ala Ser Pro Gly Ser
 165 170 175

Gly Thr Met Val Trp Trp Thr Arg Met Thr Ser Met Met Cys Thr Val
 180 185 190

Met Leu Lys Thr
 195

<210> 275
 <211> 247
 <212> PRT

<213> Homo sapiens

<400> 275

Met Val Gly His Ala Trp Arg Arg Arg Lys Gly Ser Ala Ala Tyr Val
 1 5 10 15

Cys Leu Ala Met Gly Gly Thr Cys Ala Met Leu Ala Ser Ala Ser Ala
 20 25 30

Thr Pro Ala Gly Thr Pro Ser Arg Ala Pro Ala Thr Ser Thr Phe Pro
 35 40 45

His Glu Gly Ala Gly Arg Arg Gln Arg Pro Ser Ala Gly Cys Thr Ala
 50 55 60

Arg Ile Trp Pro Ala Ser Ala His Pro Arg Asn Arg Thr Ser Ser Thr
 65 70 75 80

Thr Gly Thr Gly Ser Thr Ser Gly Ser Asp Ser Thr Thr Gly Pro Ser
 85 90 95

Lys Ala Thr Ser Cys Gly Arg Met Ala Ser Pro Cys Ser Met Arg Thr
 100 105 110

Gly Thr Leu Gly Ser Leu Thr Ala Thr Ser Cys Leu Glu Arg Thr Ala
 115 120 125

Trp Ser Leu Val Trp His Asp Gln Gly Gln Trp Ser Asp Val Pro Cys
 130 135 140

Asn Tyr His Leu Ser Tyr Thr Cys Lys Met Gly Leu Val Ser Cys Gly
 145 150 155 160

Pro Pro Pro Glu Leu Pro Leu Ala Gln Val Phe Gly Arg Pro Arg Leu
 165 170 175

Arg Tyr Glu Val Asp Thr Val Leu Arg Tyr Arg Cys Arg Glu Gly Leu
 180 185 190

Ala Gln Arg Asn Leu Pro Leu Ile Arg Cys Gln Glu Asn Gly Arg Trp
 195 200 205

Gly Gly Pro Pro Asp Phe Leu Cys Cys Pro Glu Asp Leu Pro Glu Phe
 210 215 220

Leu Gln Pro Arg Gly Arg Asp Pro Glu Gly Thr Ser Arg Glu Val Tyr
 225 230 235 240

Leu Gly Thr Phe Gly Arg Arg
 245

<210> 276

<211> 128

<212> PRT

<213> Homo sapiens

<400> 276

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<210> 277
<211> 86
<212> PRT
<213> Homo sapiens
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Met Lys Lys Asp Ser Leu Glu Val Arg Ser Lys Met Val Cys Leu Gly
1 5 10 15

Asn Phe Gly Gln Arg Pro Ser Ile Phe Leu Arg Pro His Phe Leu Phe
35 40 45

Thr Gly Leu Leu Ser His Glu Trp Glu Arg Leu Gly Leu Gln Ala Arg
65 70 75 80

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<210> 278
<211> 81
<212> PRT
<213> Homo sapiens
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<400> 278

Gly Thr Arg Ser Ser His Val Pro Ile Ser Asp Ser Lys Ser Ile Gln
 1 5 10 15

Lys Ser Glu Leu Leu Gly Leu Leu Lys Thr Tyr Asn Cys Tyr His Glu
 20 25 30

Gly Lys Ser Phe Gln Leu Arg His Arg Glu Glu Glu Gly Thr Leu Ile
 35 40 45

Ile Glu Gly Leu Leu Asn Ile Ala Trp Gly Leu Arg Arg Pro Ile Arg
 50 55 60

Leu Gln Met Gln Asp Asp Arg Glu Gln Val His Leu Pro Ser Thr Ser
 65 70 75 80

Trp

<210> 279

<211> 25

<212> PRT

<213> Homo sapiens

<400> 279

Val Pro Ile Ser Asp Ser Lys Ser Ile Gln Lys Ser Glu Leu Leu Gly
 1 5 10 15

Leu Leu Lys Thr Tyr Asn Cys Tyr His
 20 25

<210> 280

<211> 28

<212> PRT

<213> Homo sapiens

<400> 280

Phe Gln Leu Arg His Arg Glu Glu Glu Gly Thr Leu Ile Ile Glu Gly
 1 5 10 15

Leu Leu Asn Ile Ala Trp Gly Leu Arg Arg Pro Ile
 20 25

<210> 281

<211> 344

<212> PRT

<213> Homo sapiens

<400> 281

Gly Thr Arg Ser Ser His Val Pro Ile Ser Asp Ser Lys Ser Ile Gln
 1 5 10 15

Lys Ser Glu Leu Leu Gly Leu Leu Lys Thr Tyr Asn Cys Tyr His Glu
 20 25 30

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Gly Lys Ser Phe Gln Leu Arg His Arg Glu Glu Glu Gly Thr Leu Ile
 35 40 45
 Ile Glu Gly Leu Leu Asn Ile Ala Trp Gly Leu Arg Arg Pro Ile Arg
 50 55 60
 Leu Gln Met Gln Asp Asp Arg Glu Gln Val His Leu Pro Ser Thr Ser
 65 70 75 80
 Trp Met Pro Arg Arg Pro Ser Cys Pro Leu Gly Cys Trp Ser Leu Leu
 85 90 95
 Leu Gly Leu Ser Ser Leu Ser Leu Pro Ala Ala Ile Ser Ala Leu Gln
 100 105 110
 Leu Ser Val Phe Arg Lys Glu Pro Ser Pro Gln Asn Gly Asn Ile Thr
 115 120 125
 Ala Gln Gly Pro Ser Ile Gln Pro Val His Lys Ala Glu Ser Ser Thr
 130 135 140
 Asp Ser Ser Gly Pro Leu Glu Glu Ala Glu Glu Ala Pro Gln Leu Met
 145 150 155 160
 Arg Thr Lys Ser Asp Ala Ser Cys Met Ser Gln Arg Arg Pro Lys Cys
 165 170 175
 Arg Ala Pro Gly Glu Ala Gln Arg Ile Arg Arg His Arg Phe Ser Ile
 180 185 190
 Asn Gly His Phe Tyr Asn His Lys Thr Ser Val Phe Thr Pro Ala Tyr
 195 200 205
 Gly Ser Val Thr Asn Val Arg Val Asn Ser Thr Met Thr Thr Leu Gln
 210 215 220
 Val Leu Thr Leu Leu Leu Asn Lys Phe Arg Val Glu Asp Gly Pro Ser
 225 230 235 240
 Glu Phe Ala Leu Tyr Ile Val His Glu Ser Gly Glu Arg Thr Lys Leu
 245 250 255
 Lys Asp Cys Glu Tyr Pro Leu Ile Ser Arg Ile Leu His Gly Pro Cys
 260 265 270
 Glu Lys Ile Ala Arg Ile Phe Leu Met Glu Ala Asp Leu Gly Val Glu
 275 280 285
 Val Pro His Glu Val Ala Gln Tyr Ile Lys Phe Glu Met Pro Val Leu
 290 295 300
 Asp Ser Phe Val Glu Lys Leu Lys Glu Glu Glu Glu Arg Glu Ile Ile
 305 310 315 320
 Lys Leu Thr Met Lys Phe Gln Ala Leu Arg Leu Thr Met Leu Gln Arg
 325 330 335
 Leu Glu Gln Leu Val Glu Ala Lys

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<210> 282
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 282
 Gly Cys Trp Ser Leu Leu Leu Gly Leu Ser Ser Leu Ser Leu Pro Ala
 1 5 10 15

Ala Ile Ser Ala Leu Gln Leu Ser Val Phe Arg
 20 25

<210> 283
 <211> 243
 <212> PRT
 <213> Homo sapiens

<400> 283
 Thr Arg Thr Thr Ser Cys Arg Thr Pro Ser Thr Thr Ser His Leu Pro
 1 5 10 15

Thr Ser Ser Thr Arg Ser Ser Pro Pro Trp Ser Leu Gly Pro Pro Gly
 20 25 30

Val Val Ala Pro Thr Ala Ser Pro Ala Pro Thr Ala Ser Val Ala Pro
 35 40 45

Ala Thr Thr Arg Arg Leu Ser Cys Ser Ala Leu Met Met Asn Ser Arg
 50 55 60

Cys Gly Leu Gln Trp Arg Lys Cys Trp Arg His Ser His Gly Gln Ala
 65 70 75 80

Val Pro His Leu Gln Pro His His Gln Ala Arg Arg Gln Leu Ala Gln
 85 90 95

Cys Ser Arg Arg Leu Tyr Leu Leu Asp Gln Lys His Ser His Val Ala
 100 105 110

Ser Arg Gly Thr Gly Asp Ser Gln Ala Arg Pro Trp Ala Phe Arg Asn
 115 120 125

Ile Tyr Thr Trp Pro Ser Leu His Cys Pro Gly Glu Gly Arg Gly His
 130 135 140

Trp Glu Gln Gly Leu Cys Pro Cys Cys Pro Ser Cys Ala Gly Gly Met
 145 150 155 160

Leu Gly Pro Ala Ala Pro Arg Pro Gln Cys Leu Cys Val Asp Gln Arg
 165 170 175

Leu Gln Pro Ser Ser Pro Ser Ser Pro Arg Asp Ser Gln Ala Glu Val
 180 185 190

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Gly Lys Pro Trp Leu Pro His Thr Pro Cys Asn Thr Leu Ser Asp Leu
195 200 205

Gly Ser Ser Arg Leu His Pro Phe Pro Val His Leu Cys Pro Val Leu
210 215 220

Asp Ser Pro His Pro Gly Gln Glu Trp Gly Cys Gly Arg Ser Val Val
225 230 235 240

Leu Pro Ser

<210> 284
<211> 162
<212> PRT
<213> Homo sapiens

<400> 284
Ile Leu Gly Ala Gly Cys Ser Gly Gly Ser Ala Gly Ala Ile Ala Thr
1 5 10 15

Val Arg Leu Cys Pro Thr Ser Ser Leu Thr Thr Arg Pro Gly Gly Ser
20 25 30

Trp His Ser Ala His Ala Ala Phe Ile Tyr Trp Thr Arg Asn Thr His
35 40 45

Met Ser Leu Pro Glu Glu Arg Gly Thr Ala Arg Leu Ala His Gly Pro
50 55 60

Ser Gly Ile Phe Ile His Gly Pro Ala Cys Thr Ala Arg Ala Arg Ala
65 70 75 80

Glu Asp Thr Gly Ser Lys Ala Tyr Ala Pro Ala Ala Arg Pro Val Leu
85 90 95

Gly Ala Cys Trp Asp Gln Pro His Pro Gly Pro Asn Ala Cys Val Trp
100 105 110

Thr Ser Gly Cys Ser Leu Leu Ala Pro Pro Pro Arg Glu Thr Leu Arg
115 120 125

Leu Arg Ser Ala Ser Arg Gly Ser Pro Thr His Arg Ala Ile Pro Cys
130 135 140

Leu Thr Trp Ala Leu Pro Ala Cys Ile Pro Ser Leu Ser Thr Phe Val
145 150 155 160

Gln Cys

<210> 285
<211> 35
<212> PRT
<213> Homo sapiens

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<400> 285

Thr Arg Thr Thr Ser Cys Arg Thr Pro Ser Thr Thr Ser His Leu Pro
 1 5 10 15

Thr Ser Ser Thr Arg Ser Ser Pro Pro Trp Ser Leu Gly Pro Pro Gly
 20 25 30

Val Val Ala
 35

<210> 286

<211> 36

<212> PRT

<213> Homo sapiens

<400> 286

Pro Thr Ala Ser Pro Ala Pro Thr Ala Ser Val Ala Pro Ala Thr Thr
 1 5 10 15

Arg Arg Leu Ser Cys Ser Ala Leu Met Met Asn Ser Arg Cys Gly Leu
 20 25 30

Gln Trp Arg Lys
 35

<210> 287

<211> 36

<212> PRT

<213> Homo sapiens

<400> 287

Cys Trp Arg His Ser His Gly Gln Ala Val Pro His Leu Gln Pro His
 1 5 10 15

His Gln Ala Arg Arg Gln Leu Ala Gln Cys Ser Arg Arg Leu Tyr Leu
 20 25 30

Leu Asp Gln Lys
 35

<210> 288

<211> 35

<212> PRT

<213> Homo sapiens

<400> 288

His Ser His Val Ala Ser Arg Gly Thr Gly Asp Ser Gln Ala Arg Pro
 1 5 10 15

Trp Ala Phe Arg Asn Ile Tyr Thr Trp Pro Ser Leu His Cys Pro Gly
 20 25 30

Glu Gly Arg
 35

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<210> 289
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 289
 Gly His Trp Glu Gln Gly Leu Cys Pro Cys Cys Pro Ser Cys Ala Gly
 1 5 10 15

Gly Met Leu Gly Pro Ala Ala Pro Arg Pro Gln Cys Leu Cys Val Asp
 20 25 30

Gln Arg Leu Gln
 35

<210> 290
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 290
 Pro Ser Ser Pro Ser Ser Pro Arg Asp Ser Gln Ala Glu Val Gly Lys
 1 5 10 15

Pro Trp Leu Pro His Thr Pro Cys Asn Thr Leu Ser Asp Leu Gly Ser
 20 25 30

Ser Arg Leu
 35

<210> 291
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 291
 His Pro Phe Pro Val His Leu Cys Pro Val Leu Asp Ser Pro His Pro
 1 5 10 15

Gly Gln Glu Trp Gly Cys Gly Arg Ser Val Val Leu Pro Ser
 20 25 30

<210> 292
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 292
 Ile Leu Gly Ala Gly Cys Ser Gly Gly Ser Ala Gly Ala Ile Ala Thr
 1 5 10 15

Val Arg Leu Cys Pro Thr Ser Ser Leu Thr Thr Arg Pro Gly Gly Ser
 20 25 30

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Trp His Ser Ala His Ala
35

<210> 293
<211> 36
<212> PRT
<213> Homo sapiens

<400> 293
Ala Phe Ile Tyr Trp Thr Arg Asn Thr His Met Ser Leu Pro Glu Glu
1 5 10 15
Arg Gly Thr Ala Arg Leu Ala His Gly Pro Ser Gly Ile Phe Ile His
20 25 30

Gly Pro Ala Cys
35

<210> 294
<211> 34
<212> PRT
<213> Homo sapiens

<400> 294
Thr Ala Arg Ala Arg Ala Glu Asp Thr Gly Ser Lys Ala Tyr Ala Pro
1 5 10 15
Ala Ala Arg Pro Val Leu Gly Ala Cys Trp Asp Gln Pro His Pro Gly
20 25 30

Pro Asn

<210> 295
<211> 54
<212> PRT
<213> Homo sapiens

<400> 295
Ala Cys Val Trp Thr Ser Gly Cys Ser Leu Leu Ala Pro Pro Pro Arg
1 5 10 15
Glu Thr Leu Arg Leu Arg Ser Ala Ser Arg Gly Ser Pro Thr His Arg
20 25 30
Ala Ile Pro Cys Leu Thr Trp Ala Leu Pro Ala Cys Ile Pro Ser Leu
35 40 45

Ser Thr Phe Val Gln Cys
50

<210> 296
<211> 184
<212> PRT

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<213> Homo sapiens

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 296

Met Met Asn Ser Arg Cys Gly Leu Gln Trp Arg Lys Cys Trp Arg His
1 5 10 15

Ser His Gly Gln Ala Val Pro His Leu Gln Pro His His Gln Ala Arg
20 25 30

Arg Gln Leu Ala Gln Cys Ser Arg Arg Leu Tyr Leu Leu Asp Gln Lys
35 40 45

His Ser His Val Ala Ser Arg Gly Thr Gly Asp Ser Gln Ala Arg Pro
50 55 60

Trp Ala Phe Arg Asn Ile Tyr Thr Trp Pro Ser Leu His Cys Pro Gly
65 70 75 80

Glu Gly Arg Gly His Trp Glu Gln Gly Leu Cys Pro Cys Cys Pro Ser
85 90 95

Cys Ala Gly Gly Met Leu Gly Pro Ala Ala Pro Arg Pro Gln Cys Leu
100 105 110

Cys Val Asp Gln Arg Leu Gln Pro Ser Ser Pro Ser Ser Pro Arg Asp
115 120 125

Ser Gln Ala Glu Val Gly Lys Pro Trp Leu Pro His Thr Pro Cys Asn
130 135 140

Thr Leu Ser Asp Leu Gly Ser Ser Arg Leu His Pro Xaa Pro Val His
145 150 155 160

Leu Cys Pro Val Leu Asp Ser Pro His Pro Gly Gln Glu Trp Gly Cys
165 170 175

Gly Arg Ser Val Val Leu Pro Ser
180

<210> 297

<211> 278

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 297

Ile Arg Gln Ser Leu Gly Gly Glu Ser Ser Ile Met Ser Glu Ile Arg
1 5 10 15

Gly Lys Pro Ile Glu Ser Ser Cys Met Tyr Gly Thr Cys Cys Leu Trp
20 25 30

Gly Lys Thr Tyr Ser Ile Gly Phe Leu Arg Phe Cys Lys Gln Ala Thr
35 40 45

Leu Gln Phe Cys Val Val Lys Pro Leu Met Ala Val Ser Thr Val Val
50 55 60

Leu Gln Ala Phe Gly Lys Tyr Arg Asp Gly Asp Phe Asp Val Thr Ser
65 70 75 80

Gly Tyr Leu Tyr Val Thr Ile Ile Tyr Asn Ile Ser Val Ser Leu Ala
85 90 95

Leu Tyr Ala Leu Phe Leu Phe Tyr Phe Ala Thr Arg Glu Leu Leu Ser
100 105 110

Pro Tyr Ser Pro Val Leu Lys Phe Phe Met Val Lys Ser Val Ile Phe
115 120 125

Leu Ser Phe Trp Gln Gly Met Leu Leu Ala Ile Leu Glu Lys Cys Gly
130 135 140

Ala Ile Pro Lys Ile His Ser Ala Arg Val Ser Val Gly Glu Gly Thr
145 150 155 160

Val Ala Ala Gly Tyr Gln Asp Phe Ile Ile Cys Val Glu Met Phe Phe
165 170 175

Ala Ala Leu Ala Leu Arg Xaa Ala Phe Xaa Tyr Lys Val Tyr Ala Asp
180 185 190

Lys Arg Leu Asp Ala Gln Gly Arg Cys Ala Pro Met Lys Ser Ile Ser
195 200 205

Ser Ser Leu Lys Glu Thr Met Asn Pro His Asp Ile Val Gln Asp Ala
210 215 220

Ile His Asn Phe Ser Pro Ala Tyr Gln Gln Tyr Thr Gln Gln Ser Thr
225 230 235 240

Leu Glu Pro Gly Pro Thr Trp Arg Gly Gly Ala His Gly Leu Ser Arg
245 250 255

Ser His Ser Leu Ser Gly Ala Arg Asp Asn Glu Lys Thr Leu Leu Leu
260 265 270

Ser Ser Asp Asp Glu Phe
275

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<210> 298
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 298
 Pro His Arg Pro Pro Thr Pro Gln Ser Asn Phe Ser Ser His Pro Ser
 1 5 10 15
 Ser Gln Ala Leu Thr Ile Leu Lys Arg Leu Val Gly Thr Leu Leu Ser
 20 25 30
 Ala Thr Gly Lys Leu Val Arg Ala Arg Xaa Arg Ala Trp Gly
 35 40 45

<210> 299
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 299
 Gly Val Met Arg Leu Arg Thr Arg Gln Lys Ser Arg Arg Gln Arg Lys
 1 5 10 15
 Glu Lys Met Ser Arg Arg Lys Ser Lys Arg Lys Met Lys Arg Lys Arg
 20 25 30
 Arg Arg Arg Gln Arg Ala Arg Gly Gln Ser Gln Pro Met Arg Leu Ser
 35 40 45
 Phe His Pro Phe Pro Thr Leu Val Phe Phe Gln Val Leu Thr Gln Ser
 50 55 60
 Trp Val Leu Ser Ser Arg Arg Gln Leu Leu Val Val Arg Ala Gly Pro
 65 70 75 80
 His Pro Pro Trp Pro Leu Phe Asp Leu Pro His Ser Val Thr Pro Gln
 85 90 95
 Ala Ser His Thr Ser Val
 100

<210> 300
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 300
 Met Lys Arg Lys Arg Arg Arg Arg Gln Arg Ala Arg Gly Gln Ser Gln
 1 5 10 15

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Pro Met Arg Leu Ser Phe His Pro Phe Pro Thr Leu Val Phe Phe Gln
 20 25 30

Val Leu Thr Gln Ser Trp Val Leu Ser Ser Arg
 35 40

<210> 301
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 301
 Arg Gln Leu Leu Val Val Arg Ala Gly Pro His Pro Pro Trp Pro Leu
 1 5 10 15

Phe Asp Leu Pro His Ser Val Thr Pro Gln Ala Ser His Thr Ser Val
 20 25 30

<210> 302
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 302
 His His Cys Pro Ala Leu Gln Pro Gly Thr His Thr His Thr His Thr
 1 5 10 15

His Thr His Thr His Thr Arg Arg Gly Met Cys Leu Val Gln Ile Tyr
 20 25 30

Ile Lys Leu Thr His Arg Gln Ile Pro Cys Leu Cys Leu Leu Gly Pro
 35 40 45

Asp Ser Ala Val
 50

<210> 303
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 303
 His Glu Ile Leu Gln Pro Ala Val
 1 5

<210> 304
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 304

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Asn Ser Arg Val Asp Pro Arg Val Arg Asp Gly Leu Met Tyr Gln Lys
 1 5 10 15
 Phe Arg Asn Gln Phe Leu Ser Phe Ser Met Tyr Gln Ser Phe Val Gln
 20 25 30
 Phe Leu Gln Tyr Tyr Tyr Gln Ser Gly Cys Leu Tyr Arg Leu Arg Ala
 35 40 45
 Leu Gly Glu Arg His Thr
 50

<210> 305
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 305
 Met Tyr Gln Ser Phe Val Gln Phe Leu Gln Tyr Tyr Tyr Gln Ser Gly
 1 5 10 15
 Cys Leu Tyr Arg Leu Arg Ala Leu Gly Glu Arg His Thr Met Asp Leu
 20 25 30
 Thr Val Glu Gly Phe Gln Ser Trp Met Trp Arg Gly Leu Thr Phe Leu
 35 40 45
 Leu Pro Phe Leu Phe Phe Gly His Phe Trp Gln Leu Phe Asn Ala Leu
 50 55 60
 Thr Leu Phe Asn Leu Ala Gln Asp Pro Gln Cys Lys Glu Trp Gln Val
 65 70 75 80
 Leu Met Cys Gly Phe Pro Phe Leu Leu Leu Phe Leu Gly Asn Phe Phe
 85 90 95
 Thr Thr Leu Arg Val Val His His Lys Phe His Ser Gln Arg His Gly
 100 105 110
 Ser Lys Lys Asp
 115

<210> 306
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 306
 Ile Leu Met Pro Phe Cys Gly Leu His
 1 5

<210> 307
 <211> 72
 <212> PRT
 <213> Homo sapiens

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<400> 307

Met Pro Phe Cys Gly Leu His Met Ala Ser Pro Ser Ile Ile Leu Leu
 1 5 10 15

Leu Ile Phe Phe Phe Phe Phe Phe Phe Ser Val Cys Ser Val Ser Gln
 20 25 30

Tyr Met Phe Glu Asn Glu Cys Glu Ser Met Ser Arg Arg Arg Gly Arg
 35 40 45

Gly Leu Gly Arg Ser Arg Leu Lys Val Glu Gln Gly Pro Asp Ala Asp
 50 55 60

Leu His Pro Arg Thr Leu Gly Ser
 65 70

<210> 308

<211> 17

<212> PRT

<213> Homo sapiens

<400> 308

Leu Pro Leu Val Leu Pro Pro Thr Pro Pro Pro Pro Trp Leu Pro Ser
 1 5 10 15

Leu

<210> 309

<211> 220

<212> PRT

<213> Homo sapiens

<400> 309

Thr Thr Met Tyr Ala Leu Trp Arg Thr Gly Pro Thr Thr Ser Pro Ala
 1 5 10 15

Leu Leu Thr Leu Leu Ser Lys Gly Val Pro Arg Pro Ala Ala Pro Trp
 20 25 30

Thr Met Ser Pro Ser Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly
 35 40 45

Gln Leu Leu Glu Gln Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu
 50 55 60

Ile Thr Gly Cys Thr Asn Ala Ala Gly Leu Leu Val Val Gly Asn Phe
 65 70 75 80

Gln Val Asp His Ala Arg Ser Leu His Tyr Val Gly Ala Gly Val Ala
 85 90 95

Phe Pro Ala Gly Leu Leu Phe Val Cys Leu His Cys Ala Leu Ser Tyr
 100 105 110

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Gln Gly Ala Thr Ala Pro Leu Asp Leu Ala Val Ala Tyr Leu Arg Ser
115 120 125

Val Leu Ala Val Ile Ala Phe Ile Thr Leu Val Leu Ser Gly Val Phe
130 135 140

Phe Val His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu Cys Glu
145 150 155 160

Trp Val Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe Ser Tyr
165 170 175

Glu Phe Gly Ala Val Ser Ser Asp Thr Leu Val Ala Ala Leu Gln Pro
180 185 190

Thr Pro Gly Arg Ala Cys Lys Ser Ser Gly Ser Ser Ser Thr Ser Thr
195 200 205

His Leu Asn Cys Ala Pro Glu Ser Ile Ala Met Ile
210 215 220

<210> 310

<211> 37

<212> PRT

<213> Homo sapiens

<400> 310

Thr Thr Met Tyr Ala Leu Trp Arg Thr Gly Pro Thr Thr Ser Pro Ala
1 5 10 15

Leu Leu Thr Leu Leu Ser Lys Gly Val Pro Arg Pro Ala Ala Pro Trp
20 25 30

Thr Met Ser Pro Ser
35

<210> 311

<211> 34

<212> PRT

<213> Homo sapiens

<400> 311

Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly Gln Leu Leu Glu Gln
1 5 10 15

Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu Ile Thr Gly Cys Thr
20 25 30

Asn Ala

<210> 312

<211> 37

<212> PRT

<213> Homo sapiens

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<400> 312

Ala Gly Leu Leu Val Val Gly Asn Phe Gln Val Asp His Ala Arg Ser
 1 5 10 15

Leu His Tyr Val Gly Ala Gly Val Ala Phe Pro Ala Gly Leu Leu Phe
 20 25 30

Val Cys Leu His Cys
 35

<210> 313

<211> 34

<212> PRT

<213> Homo sapiens

<400> 313

Ala Leu Ser Tyr Gln Gly Ala Thr Ala Pro Leu Asp Leu Ala Val Ala
 1 5 10 15

Tyr Leu Arg Ser Val Leu Ala Val Ile Ala Phe Ile Thr Leu Val Leu
 20 25 30

Ser Gly

<210> 314

<211> 41

<212> PRT

<213> Homo sapiens

<400> 314

Val Phe Phe Val His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu
 1 5 10 15

Cys Glu Trp Val Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe
 20 25 30

Ser Tyr Glu Phe Gly Ala Val Ser Ser
 35 40

<210> 315

<211> 37

<212> PRT

<213> Homo sapiens

<400> 315

Asp Thr Leu Val Ala Ala Leu Gln Pro Thr Pro Gly Arg Ala Cys Lys
 1 5 10 15

Ser Ser Gly Ser Ser Ser Thr Ser Thr His Leu Asn Cys Ala Pro Glu
 20 25 30

Ser Ile Ala Met Ile
 35

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<210> 316
 <211> 177
 <212> PRT
 <213> Homo sapiens

<400> 316
 Ser Ala Ser Cys Ala Thr Gly Ser Ser Trp Ser Arg Val Gly Thr Leu
 1 5 10 15
 Gly Leu Thr Pro Arg His Ser Ser Gln Ala Ala Pro Thr Leu Arg Ala
 20 25 30
 Ser Trp Trp Leu Ala Thr Phe Arg Trp Ile Met Pro Gly Leu Cys Thr
 35 40 45
 Thr Leu Glu Leu Ala Trp Pro Ser Leu Arg Gly Cys Ser Leu Phe Ala
 50 55 60
 Cys Thr Val Leu Ser Pro Thr Lys Gly Pro Pro Pro Arg Trp Thr Trp
 65 70 75 80
 Leu Trp Pro Ile Cys Glu Val Cys Trp Leu Ser Ser Pro Leu Ser Pro
 85 90 95
 Trp Ser Ser Val Glu Ser Ser Leu Ser Met Arg Val Leu Ser Cys Asn
 100 105 110
 Met Gly Gln Pro Cys Val Ser Gly Cys Val Ser Ser Ile Ser Ser Phe
 115 120 125
 Ser Met Ala Pro Ser Ala Thr Ser Leu Gly Gln Ser Pro Gln Thr His
 130 135 140
 Trp Trp Leu His Cys Ser Leu Pro Leu Ala Gly Pro Ala Ser Pro Pro
 145 150 155 160
 Gly Ala Ala Ala Pro Pro Pro Thr Ser Thr Val Pro Pro Arg Ala Ser
 165 170 175
 Leu

<210> 317
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 317
 Ser Ala Ser Cys Ala Thr Gly Ser Ser Trp Ser Arg Val Gly Thr Leu
 1 5 10 15
 Gly Leu Thr Pro Arg His Ser Ser Gln Ala Ala Pro Thr Leu Arg Ala
 20 25 30
 Ser Trp Trp Leu Ala Thr

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35

<210> 318
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 318
 Phe Arg Trp Ile Met Pro Gly Leu Cys Thr Thr Leu Glu Leu Ala Trp
 1 5 10 15
 Pro Ser Leu Arg Gly Cys Ser Leu Phe Ala Cys Thr Val Leu Ser Pro
 20 25 30

Thr

<210> 319
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 319
 Lys Gly Pro Pro Pro Arg Trp Thr Trp Leu Trp Pro Ile Cys Glu Val
 1 5 10 15
 Cys Trp Leu Ser Ser Pro Leu Ser Pro Trp Ser Ser Val Glu Ser Ser
 20 25 30

Leu Ser Met Arg
 35

<210> 320
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 320
 Val Leu Ser Cys Asn Met Gly Gln Pro Cys Val Ser Gly Cys Val Ser
 1 5 10 15
 Ser Ile Ser Ser Phe Ser Met Ala Pro Ser Ala Thr Ser Leu Gly Gln
 20 25 30

Ser Pro Gln
 35

<210> 321
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 321
 Thr His Trp Trp Leu His Cys Ser Leu Pro Leu Ala Gly Pro Ala Ser

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1 5 10 15

Pro Pro Gly Ala Ala Ala Pro Pro Pro Thr Ser Thr Val Pro Pro Arg
20 25 30

Ala Ser Leu
35

<210> 322

<211> 218

<212> PRT

<213> Homo sapiens

<400> 322

Met Tyr Ala Leu Trp Arg Thr Gly Pro Thr Thr Ser Pro Ala Leu Leu
1 5 10 15

Thr Leu Leu Ser Lys Gly Val Pro Arg Pro Ala Ala Pro Trp Thr Met
20 25 30

Ser Pro Ser Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly Gln Leu
35 40 45

Leu Glu Gln Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu Ile Thr
50 55 60

Gly Cys Thr Asn Ala Ala Gly Leu Leu Val Val Gly Asn Phe Gln Val
65 70 75 80

Asp His Ala Arg Ser Leu His Tyr Val Gly Ala Gly Val Ala Phe Pro
85 90 95

Ala Gly Leu Leu Phe Val Cys Leu His Cys Ala Leu Ser Tyr Gln Gly
100 105 110

Ala Thr Ala Pro Leu Asp Leu Ala Val Ala Tyr Leu Arg Ser Val Leu
115 120 125

Ala Val Ile Ala Phe Ile Thr Leu Val Leu Ser Gly Val Phe Phe Val
130 135 140

His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu Cys Glu Trp Val
145 150 155 160

Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe Ser Tyr Glu Phe
165 170 175

Gly Ala Val Ser Ser Asp Thr Leu Val Ala Ala Leu Gln Pro Thr Pro
180 185 190

Gly Arg Ala Cys Lys Ser Ser Gly Ser Ser Ser Thr Ser Thr His Leu
195 200 205

Asn Cys Ala Pro Glu Ser Ile Ala Met Ile
210 215

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<210> 323
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 323
 Met Ser Pro Ser Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly Gln
 1 5 10 15
 Leu Leu Glu Gln Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu Ile
 20 25 30
 Thr Gly Cys Thr Asn Ala Ala Gly Leu Leu Val Val Gly Asn Phe Gln
 35 40 45
 Val Asp His Ala Arg Ser Leu His Tyr Val Gly Ala Gly Val Ala Phe
 50 55 60
 Pro Ala Gly Leu Leu Phe Val Cys Leu His Cys Ala Leu Ser Tyr Gln
 65 70 75 80
 Gly Ala Thr Ala Pro Leu Asp Leu Ala Val Ala Tyr Leu Arg Ser Val
 85 90 95
 Leu Ala Val Ile Ala Phe Ile Thr Leu Val Leu Ser Gly Val Phe Phe
 100 105 110
 Val His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu Cys Glu Trp
 115 120 125
 Val Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe Ser Tyr Glu
 130 135 140
 Phe Gly Ala Val Ser Ser Asp Thr Leu Val Ala Ala Leu Gln Pro Thr
 145 150 155 160
 Pro Gly Arg Ala Cys Lys Ser Ser Gly Ser Ser Ser Thr Ser Thr His
 165 170 175
 Leu Asn Cys Ala Pro Glu Ser Ile Ala Met Ile
 180 185

<210> 324
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 324
 Met Thr Ala Trp Ile Leu Leu Pro Val Ser Leu Ser Ala Phe Ser Ile
 1 5 10 15
 Thr Gly Ile Trp Thr Val Tyr Ala Met Ala Val Met Asn His His Val
 20 25 30
 Cys Pro Val Glu Asn Trp Ser Tyr Asn Glu Ser Cys Pro Pro Asp Pro
 35 40 45

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Leu Ile Ser
65

<400> 325
Met Pro Gly Leu Cys Thr Thr Leu Glu Leu Ala Trp Pro Ser Leu Arg
1 5 10 15

Pro Pro Arg Trp Thr Trp Leu Trp Pro Ile Cys Glu Val Cys Trp Leu
35 40 45

Arg Val Leu Ser Cys Asn Met Gly Gln Pro Cys Val Ser Gly Cys Val
65 70 75 80

Gln Ser Pro Gln Thr His Trp Trp Leu His Cys Ser Leu Pro Leu Ala
100 105 110

Val Pro Pro Arg Ala Ser Leu
130 135

<400> 326
Ser Cys His Ser Gly Gln Gln Ser Glu Thr Val Ser Glu Lys Lys
1 5 10 15

<400> 327
Ser Pro Pro Ile Ser Phe Thr Leu Thr Ser Gly Leu Pro Asn Pro

1 5 10 15

<210> 328
 <211> 80
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 328
 Gln Phe His Thr Gly Asn Ser Tyr Asp His Asp Tyr Ala Lys Xaa Xaa
 1 5 10 15
 Tyr Gly Asn Leu Tyr Tyr Arg Xaa Ser Trp Tyr Ala Cys Arg Tyr Arg
 20 25 30
 Ser Gly Ile Pro Gly Ser Thr His Ala Ser Glu Lys Ile Phe Leu Ser
 35 40 45
 Lys Leu Ile Val Cys Phe Leu Ser Thr Trp Leu Pro Phe Val Leu Leu
 50 55 60
 Gln Val Ile Ile Val Xaa Leu Lys Val Gln Ile Pro Ala Tyr Ile Glu
 65 70 75 80

<210> 329
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 329
 Ile Pro Ile Arg Phe Val Asn Ile Phe Phe His Ser Ala Gly Cys Leu
 1 5 10 15

Phe Ile Phe Leu Ile

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20

<210> 330
 <211> 655
 <212> PRT
 <213> Homo sapiens

<400> 330

Tyr Arg Ile Pro Leu Ala Ala Asp Ala Gly Leu Leu Gln Phe Leu Gln
 1 5 10 15

Glu Phe Ser Gln Gln Thr Ile Ser Arg Thr His Glu Ile Lys Lys Gln
 20 25 30

Val Asp Gly Leu Ile Arg Glu Thr Lys Ala Thr Asp Cys Arg Leu His
 35 40 45

Asn Val Phe Asn Asp Phe Leu Met Leu Ser Asn Thr Gln Phe Ile Glu
 50 55 60

Asn Arg Val Tyr Asp Glu Glu Val Glu Glu Pro Val Leu Lys Ala Glu
 65 70 75 80

Ala Glu Lys Thr Glu Gln Glu Lys Thr Arg Glu Gln Lys Glu Val Asp
 85 90 95

Leu Ile Pro Lys Val Gln Glu Ala Val Asn Tyr Gly Leu Gln Val Leu
 100 105 110

Asp Ser Ala Phe Glu Gln Leu Asp Ile Lys Ala Gly Asn Ser Asp Ser
 115 120 125

Glu Glu Asp Asp Ala Asn Gly Arg Val Glu Leu Ile Leu Glu Pro Lys
 130 135 140

Asp Leu Tyr Ile Asp Arg Pro Leu Pro Tyr Leu Ile Gly Ser Lys Leu
 145 150 155 160

Phe Met Glu Gln Glu Asp Val Gly Leu Gly Glu Leu Ser Ser Glu Glu
 165 170 175

Gly Ser Val Gly Ser Asp Arg Gly Ser Ile Val Asp Thr Glu Glu Glu
 180 185 190

Lys Glu Glu Glu Glu Ser Asp Glu Asp Phe Ala His His Ser Asp Asn
 195 200 205

Glu Gln Asn Gln His Thr Thr Gln Met Ser Asp Glu Glu Glu Asp Asp
 210 215 220

Asp Gly Cys Asp Leu Phe Ala Asp Ser Glu Lys Glu Glu Glu Asp Ile
 225 230 235 240

Glu Asp Ile Glu Glu Asn Thr Arg Pro Lys Arg Ser Arg Pro Thr Ser
 245 250 255

Phe Ala Asp Glu Leu Ala Ala Arg Ile Lys Gly Asp Ala Met Gly Arg

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260	265	270
Val Asp Glu Glu Pro Thr Thr Leu Pro Ser Gly Glu Ala Lys Pro Arg 275 280 285		
Lys Thr Leu Lys Glu Lys Lys Glu Arg Arg Thr Pro Ser Asp Asp Glu 290 295 300		
Glu Asp Asn Leu Phe Ala Pro Pro Lys Leu Thr Asp Glu Asp Phe Ser 305 310 315 320		
Pro Phe Gly Ser Gly Gly Gly Leu Phe Ser Gly Gly Lys Gly Leu Phe 325 330 335		
Asp Asp Glu Asp Glu Glu Ser Asp Leu Phe Met Glu Ala Pro Gln Asp 340 345 350		
Arg Gln Ala Gly Ala Ser Val Lys Glu Glu Ser Ser Ser Ser Lys Pro 355 360 365		
Gly Lys Lys Ile Pro Ala Gly Ala Val Ser Val Phe Leu Gly Asp Thr 370 375 380		
Asp Val Phe Gly Ala Ala Ser Val Pro Ser Leu Lys Glu Pro Gln Lys 385 390 395 400		
Pro Glu Gln Pro Thr Pro Arg Lys Ser Pro Tyr Gly Pro Pro Pro Thr 405 410 415		
Gly Leu Phe Asp Asp Asp Asp Gly Asp Asp Asp Asp Phe Phe Ser 420 425 430		
Ala Pro His Ser Lys Pro Ser Lys Thr Arg Lys Val Gln Ser Thr Ala 435 440 445		
Asp Ile Phe Gly Asp Glu Glu Gly Asp Leu Phe Lys Glu Lys Ala Val 450 455 460		
Ala Ser Pro Glu Ala Thr Val Ser Gln Thr Asp Glu Asn Lys Ala Arg 465 470 475 480		
Ala Glu Lys Lys Asp Leu Phe Ser Ser Gln Ser Ala Ser Asn Leu Lys 485 490 495		
Gly Ala Ser Leu Leu Pro Gly Lys Leu Pro Thr Ser Val Ser Leu Phe 500 505 510		
Asp Asp Glu Asp Glu Glu Asp Asn Leu Phe Gly Gly Thr Ala Ala Lys 515 520 525		
Lys Gln Thr Leu Ser Leu Gln Ala Gln Arg Glu Glu Lys Ala Lys Ala 530 535 540		
Ser Glu Leu Ser Lys Lys Lys Ala Ser Ala Leu Leu Phe Ser Ser Asp 545 550 555 560		
Glu Glu Asp Gln Trp Asn Ile Pro Ala Ser Gln Thr His Leu Ala Ser 565 570 575		

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Asp Ser Arg Ser Lys Gly Glu Pro Arg Asp Ser Gly Thr Leu Gln Ser
580 585 590

Gln Glu Ala Lys Ala Val Lys Lys Thr Ser Leu Phe Glu Glu Asp Lys
595 600 605

Glu Asp Asp Leu Phe Ala Ile Ala Lys Asp Ser Gln Lys Lys Thr Gln
610 615 620

Arg Val Ser Leu Leu Phe Glu Asp Asp Val Asp Ser Gly Gly Ser Leu
625 630 635 640

Phe Gly Ser Pro Pro Thr Ser Val Pro Pro Ala Thr Lys Lys Lys
645 650 655

<210> 331

<211> 182

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 331

Phe Leu Pro Asp His Pro Ala Lys Pro Pro Ser Ser Leu Val His Ser
1 5 10 15

Pro Phe Val Phe Gly Xaa Pro Leu Ser Phe Gln Gln Pro Gln Leu Gln
20 25 30

Lys Ser Pro Ser Arg Asn Leu Ala Ser Arg Glu Arg Ile Tyr Lys Asn
35 40 45

Tyr Gly Val Ala Gly Pro Ala Ser Ala Leu Ser Ser Leu Ser His Lys
50 55 60

Leu Lys Gly Asp Arg Gly Asn Ile Ser Thr Ser Ser Lys Pro Ala Ser
65 70 75 80

Thr Ser Gly Lys Ser Glu Leu Ser Ser Lys His Ser Arg Ser Leu Lys
85 90 95

Pro Asp Gly Arg Met Ser Arg Thr Thr Ala Asp Gln Lys Lys Pro Arg
100 105 110

Gly Thr Glu Ser Leu Ser Ala Ser Glu Ser Leu Ile Leu Lys Ser Asp
115 120 125

Ala Ala Lys Leu Arg Ser Asp Ser His Ser Arg Ser Leu Ser Pro Asn
130 135 140

His Asn Thr Leu Gln Thr Leu Lys Ser Asp Gly Arg Met Pro Ser Ser
145 150 155 160

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Ser Arg Ala Glu Ser Pro Gly Pro Gly Ser Arg Leu His Leu Leu Ser
 165 170 175

Gln Arg Leu Ser Gln Gln
 180

<210> 332

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 332

Phe Leu Pro Asp His Pro Ala Lys Pro Pro Ser Ser Leu Val His Ser
 1 5 10 15

Pro Phe Val Phe Gly Xaa Pro Leu Ser Phe Gln Gln Pro Gln Leu Gln
 20 25 30

Lys Ser Pro Ser Arg Asn Leu Ala Ser Arg Glu Arg Ile Tyr Lys Asn
 35 40 45

Tyr Gly Val Ala Gly Pro Ala Ser Ala Leu Ser Ser
 50 55 60

<210> 333

<211> 60

<212> PRT

<213> Homo sapiens

<400> 333

Leu Ser His Lys Leu Lys Gly Asp Arg Gly Asn Ile Ser Thr Ser Ser
 1 5 10 15

Lys Pro Ala Ser Thr Ser Gly Lys Ser Glu Leu Ser Ser Lys His Ser
 20 25 30

Arg Ser Leu Lys Pro Asp Gly Arg Met Ser Arg Thr Thr Ala Asp Gln
 35 40 45

Lys Lys Pro Arg Gly Thr Glu Ser Leu Ser Ala Ser
 50 55 60

<210> 334

<211> 62

<212> PRT

<213> Homo sapiens

<400> 334

Glu Ser Leu Ile Leu Lys Ser Asp Ala Ala Lys Leu Arg Ser Asp Ser
 1 5 10 15

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His Ser Arg Ser Leu Ser Pro Asn His Asn Thr Leu Gln Thr Leu Lys
20 25 30

Ser Asp Gly Arg Met Pro Ser Ser Ser Arg Ala Glu Ser Pro Gly Pro
35 40 45

Gly Ser Arg Leu His Leu Leu Ser Gln Arg Leu Ser Gln Gln
50 55 60

<210> 335
<211> 487
<212> PRT
<213> Homo sapiens

<400> 335

Met Val Glu Phe Cys Glu Ser Asp Glu Gly Glu Ala Trp Ser Leu Ala
1 5 10 15

Arg Asp Arg Gly Gly Asn Gln Tyr Leu Arg His Glu Asp Glu Gln Ala
20 25 30

Leu Leu Asp Gln Asn Ser Gln Thr Pro Pro Pro Ser Pro Phe Ser Val
35 40 45

Gln Ala Phe Asn Lys Gly Ala Ser Cys Ser Ala Gln Gly Phe Asp Tyr
50 55 60

Gly Leu Gly Asn Ser Lys Gly Asp Gln Leu Ser Ala Ile Leu Asn Ser
65 70 75 80

Ile Gln Ser Arg Pro Asn Leu Pro Ala Pro Ser Ile Phe Asp Gln Ala
85 90 95

Ala Lys Pro Pro Ser Ser Leu Val His Ser Pro Phe Val Phe Gly Gln
100 105 110

Pro Leu Ser Phe Gln Gln Pro Gln Leu Gln Lys Ser Pro Ser Arg Asn
115 120 125

Leu Ala Ser Arg Glu Arg Ile Tyr Lys Asn Tyr Gly Val Ala Gly Pro
130 135 140

Ala Ser Ala Leu Ser Ser Leu Ser His Lys Leu Lys Gly Asp Arg Gly
145 150 155 160

Asn Ile Ser Thr Ser Ser Lys Pro Ala Ser Thr Ser Gly Lys Ser Glu
165 170 175

Leu Ser Ser Lys His Ser Arg Ser Leu Lys Pro Asp Gly Arg Met Ser
180 185 190

Arg Thr Thr Ala Asp Gln Lys Lys Pro Arg Gly Thr Glu Ser Leu Ser
195 200 205

Ala Ser Glu Ser Leu Ile Leu Lys Ser Asp Ala Ala Lys Leu Arg Ser
210 215 220

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Asp Ser His Ser Arg Ser Leu Ser Pro Asn His Asn Thr Leu Gln Thr
 225 230 235 240
 Leu Lys Ser Asp Gly Arg Met Pro Ser Ser Ser Arg Ala Glu Ser Pro
 245 250 255
 Gly Pro Gly Ser Arg Leu Ser Ser Pro Lys Pro Lys Thr Leu Pro Ala
 260 265 270
 Asn Arg Ser Ser Pro Ser Gly Ala Ser Ser Pro Arg Ser Ser Ser Pro
 275 280 285
 His Asp Lys Asn Leu Pro Gln Lys Ser Thr Ala Pro Val Lys Thr Lys
 290 295 300
 Leu Asp Pro Pro Arg Glu Arg Ser Lys Ser Asp Ser Tyr Thr Leu Asp
 305 310 315 320
 Pro Asp Thr Leu Arg Lys Lys Lys Met Pro Leu Thr Glu Pro Leu Arg
 325 330 335
 Gly Arg Ser Thr Ser Pro Lys Pro Lys Ser Val Pro Lys Asp Ser Thr
 340 345 350
 Asp Ser Pro Gly Ser Glu Asn Arg Ala Pro Ser Pro His Val Val Gln
 355 360 365
 Glu Asn Leu His Ser Glu Val Val Glu Val Cys Thr Ser Ser Thr Leu
 370 375 380
 Lys Thr Asn Ser Leu Thr Asp Ser Thr Cys Asp Asp Ser Ser Glu Phe
 385 390 395 400
 Lys Ser Val Asp Glu Gly Ser Asn Lys Val His Phe Ser Ile Gly Lys
 405 410 415
 Ala Pro Leu Lys Asp Glu Gln Glu Met Arg Ala Ser Pro Lys Ile Ser
 420 425 430
 Arg Lys Cys Ala Asn Arg His Thr Arg Pro Lys Lys Glu Lys Ser Ser
 435 440 445
 Phe Leu Phe Lys Gly Asp Gly Ser Gly Ala Phe Arg Ala Ser Gln Ser
 450 455 460
 Lys Pro Cys Leu Leu Leu Trp Pro Asn Val Pro Glu Leu Cys Leu Leu
 465 470 475 480
 Pro Ser Ser Gly Met Lys Ala
 485

<210> 336

<211> 526

<212> PRT

<213> Homo sapiens

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<400> 336

Asn Gly Tyr Thr Glu Ala Trp Cys Leu Ser Phe Asn Gln His Leu Gly
 1 5 10 15

Lys Ser Leu Leu Val Pro Val Asp Val Thr Asn Ser Glu Gly Thr Trp
 20 25 30

Val Gln Leu Asp Gln Asn Ser Met Val Glu Phe Cys Glu Ser Asp Glu
 35 40 45

Gly Glu Ala Trp Ser Leu Ala Arg Asp Arg Gly Gly Asn Gln Tyr Leu
 50 55 60

Arg His Glu Asp Glu Gln Ala Leu Leu Asp Gln Asn Ser Gln Thr Pro
 65 70 75 80

Pro Pro Ser Pro Phe Ser Val Gln Ala Phe Asn Lys Gly Ala Ser Cys
 85 90 95

Ser Ala Gln Gly Phe Asp Tyr Gly Leu Gly Asn Ser Lys Gly Asp Gln
 100 105 110

Leu Ser Ala Ile Leu Asn Ser Ile Gln Ser Arg Pro Asn Leu Pro Ala
 115 120 125

Pro Ser Ile Phe Asp Gln Ala Ala Lys Pro Pro Ser Ser Leu Val His
 130 135 140

Ser Pro Phe Val Phe Gly Gln Pro Leu Ser Phe Gln Gln Pro Gln Leu
 145 150 155 160

Gln Lys Ser Pro Ser Arg Asn Leu Ala Ser Arg Glu Arg Ile Tyr Lys
 165 170 175

Asn Tyr Gly Val Ala Gly Pro Ala Ser Ala Leu Ser Ser Leu Ser His
 180 185 190

Lys Leu Lys Gly Asp Arg Gly Asn Ile Ser Thr Ser Ser Lys Pro Ala
 195 200 205

Ser Thr Ser Gly Lys Ser Glu Leu Ser Ser Lys His Ser Arg Ser Leu
 210 215 220

Lys Pro Asp Gly Arg Met Ser Arg Thr Thr Ala Asp Gln Lys Lys Pro
 225 230 235 240

Arg Gly Thr Glu Ser Leu Ser Ala Ser Glu Ser Leu Ile Leu Lys Ser
 245 250 255

Asp Ala Ala Lys Leu Arg Ser Asp Ser His Ser Arg Ser Leu Ser Pro
 260 265 270

Asn His Asn Thr Leu Gln Thr Leu Lys Ser Asp Gly Arg Met Pro Ser
 275 280 285

Ser Ser Arg Ala Glu Ser Pro Gly Pro Gly Ser Arg Leu Ser Ser Pro
 290 295 300

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Lys Pro Lys Thr Leu Pro Ala Asn Arg Ser Ser Pro Ser Gly Ala Ser
305 310 315 320

Ser Pro Arg Ser Ser Ser Pro His Asp Lys Asn Leu Pro Gln Lys Ser
325 330 335

Thr Ala Pro Val Lys Thr Lys Leu Asp Pro Pro Arg Glu Arg Ser Lys
340 345 350

Ser Asp Ser Tyr Thr Leu Asp Pro Asp Thr Leu Arg Lys Lys Lys Met
355 360 365

Pro Leu Thr Glu Pro Leu Arg Gly Arg Ser Thr Ser Pro Lys Pro Lys
370 375 380

Ser Val Pro Lys Asp Ser Thr Asp Ser Pro Gly Ser Glu Asn Arg Ala
385 390 395 400

Pro Ser Pro His Val Val Gln Glu Asn Leu His Ser Glu Val Val Glu
405 410 415

Val Cys Thr Ser Ser Thr Leu Lys Thr Asn Ser Leu Thr Asp Ser Thr
420 425 430

Cys Asp Asp Ser Ser Glu Phe Lys Ser Val Asp Glu Gly Ser Asn Lys
435 440 445

Val His Phe Ser Ile Gly Lys Ala Pro Leu Lys Asp Glu Gln Glu Met
450 455 460

Arg Ala Ser Pro Lys Ile Ser Arg Lys Cys Ala Asn Arg His Thr Arg
465 470 475 480

Pro Lys Lys Glu Lys Ser Ser Phe Leu Phe Lys Gly Asp Gly Ser Gly
485 490 495

Ala Phe Arg Ala Ser Gln Ser Lys Pro Cys Leu Leu Leu Trp Pro Asn
500 505 510

Val Pro Glu Leu Cys Leu Leu Pro Ser Ser Gly Met Lys Ala
515 520 525

<210> 337

<211> 112

<212> PRT

<213> Homo sapiens

<400> 337

Asn Gly Tyr Thr Glu Ala Trp Cys Leu Ser Phe Asn Gln His Leu Gly
1 5 10 15

Lys Ser Leu Leu Val Pro Val Asp Val Thr Asn Ser Glu Gly Thr Trp
20 25 30

Val Gln Leu Asp Gln Asn Ser Met Val Glu Phe Cys Glu Ser Asp Glu
35 40 45

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Gly Glu Ala Trp Ser Leu Ala Arg Asp Arg Gly Gly Asn Gln Tyr Leu
50 55 60

Arg His Glu Asp Glu Gln Ala Leu Leu Asp Gln Asn Ser Gln Thr Pro
65 70 75 80

Pro Pro Ser Pro Phe Ser Val Gln Ala Phe Asn Lys Gly Ala Ser Cys
85 90 95

Ser Ala Gln Gly Phe Asp Tyr Gly Leu Gly Asn Ser Lys Gly Asp Gln
100 105 110

<210> 338

<211> 22

<212> PRT

<213> Homo sapiens

<400> 338

Asn Gly Tyr Thr Glu Ala Trp Cys Leu Ser Phe Asn Gln His Leu Gly
1 5 10 15

Lys Ser Leu Leu Val Pro
20

<210> 339

<211> 98

<212> PRT

<213> Homo sapiens

<400> 339

Leu Gly Lys Ser Leu Leu Val Pro Val Asp Val Thr Asn Ser Glu Gly
1 5 10 15

Thr Trp Val Gln Leu Asp Gln Asn Ser Met Val Glu Phe Cys Glu Ser
20 25 30

Asp Glu Gly Glu Ala Trp Ser Leu Ala Arg Asp Arg Gly Gly Asn Gln
35 40 45

Tyr Leu Arg His Glu Asp Glu Gln Ala Leu Leu Asp Gln Asn Ser Gln
50 55 60

Thr Pro Pro Pro Ser Pro Phe Ser Val Gln Ala Phe Asn Lys Gly Ala
65 70 75 80

Ser Cys Ser Ala Gln Gly Phe Asp Tyr Gly Leu Gly Asn Ser Lys Gly
85 90 95

Asp Gln

<210> 340

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<211> 301
 <212> PRT
 <213> Homo sapiens

<400> 340

Lys Gly Asp Arg Gly Asn Ile Ser Thr Ser Ser Lys Pro Ala Ser Thr
 1 5 10 15

Ser Gly Lys Ser Glu Leu Ser Ser Lys His Ser Arg Ser Leu Lys Pro
 20 25 30

Asp Gly Arg Met Ser Arg Thr Thr Ala Asp Gln Lys Lys Pro Arg Gly
 35 40 45

Thr Glu Ser Leu Ser Ala Ser Glu Ser Leu Ile Leu Lys Ser Asp Ala
 50 55 60

Ala Lys Leu Arg Ser Asp Ser His Ser Arg Ser Leu Ser Pro Asn His
 65 70 75 80

Asn Thr Leu Gln Thr Leu Lys Ser Asp Gly Arg Met Pro Ser Ser Ser
 85 90 95

Arg Ala Glu Ser Pro Gly Pro Gly Ser Arg Leu Ser Ser Pro Lys Pro
 100 105 110

Lys Thr Leu Pro Ala Asn Arg Ser Ser Pro Ser Gly Ala Ser Ser Pro
 115 120 125

Arg Ser Ser Ser Pro His Asp Lys Asn Leu Pro Gln Lys Ser Thr Ala
 130 135 140

Pro Val Lys Thr Lys Leu Asp Pro Pro Arg Glu Arg Ser Lys Ser Asp
 145 150 155 160

Ser Tyr Thr Leu Asp Pro Asp Thr Leu Arg Lys Lys Lys Met Pro Leu
 165 170 175

Thr Glu Pro Leu Arg Gly Arg Ser Thr Ser Pro Lys Pro Lys Ser Val
 180 185 190

Pro Lys Asp Ser Thr Asp Ser Pro Gly Ser Glu Asn Arg Ala Pro Ser
 195 200 205

Pro His Val Val Gln Glu Asn Leu His Ser Glu Val Val Glu Val Cys
 210 215 220

Thr Ser Ser Thr Leu Lys Thr Asn Ser Leu Thr Asp Ser Thr Cys Asp
 225 230 235 240

Asp Ser Ser Glu Phe Lys Ser Val Asp Glu Gly Ser Asn Lys Val His
 245 250 255

Phe Ser Ile Gly Lys Ala Pro Leu Lys Asp Glu Gln Glu Met Arg Ala
 260 265 270

Ser Pro Lys Ile Ser Arg Lys Cys Ala Asn Arg His Thr Arg Pro Lys
 275 280 285

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<400> 342
Met Ser Pro Ser Val Ala Glu Cys Ala Arg Ala Val Phe Ala Ser Phe

1 5 10 15
 Leu Trp His Glu Gly Ile Val Met Met His Gly Leu Ser Ser Phe Leu
 20 25 30
 Lys Phe His Pro Glu Leu Ser Lys Glu His Ala Pro Ile Arg Ser Ser
 35 40 45
 Leu Asn Ser Gln Gln Pro Thr Glu Glu Lys Glu Thr Lys Leu Glu Asn
 50 55 60
 Arg His Ser Leu Glu Ile Ser Ser Ala Leu Asn Met Phe Asn Ile Ala
 65 70 75 80
 Pro His Gly Pro Asp Ile Ser Lys Met Gly Ser Ile Asn Lys Asn Lys
 85 90 95
 Val Leu Ser Met Leu Lys Glu Pro Pro Leu His Glu Lys Cys Glu Asp
 100 105 110
 Gly Lys Thr Glu Thr Thr Phe Glu Met Ser Met His Asn Thr Met Lys
 115 120 125
 Ser Lys Ser Pro Leu Pro Leu Thr Leu Gln His Leu Val Ala Phe Trp
 130 135 140
 Glu Asp Ile Ser Leu Ala Thr Ile Lys Ala Ala Ser Gln Asn Met Ile
 145 150 155 160
 Phe Pro Ser Pro Gly Ser Cys Ala Val Leu Lys Lys Lys Glu Cys Glu
 165 170 175
 Lys Glu Asn Lys Lys Ser Lys Lys Glu Lys Lys Lys Lys Lys
 180 185 190

<210> 343
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 343
 Lys Gln Ala Met Ser Pro Ser Val Ala Glu Cys Ala Arg Ala Val Phe
 1 5 10 15

Ala Ser Phe Leu Trp His Glu Gly Ile Val
 20 25

<210> 344
 <211> 162
 <212> PRT
 <213> Homo sapiens

<400> 344
 Ser Ser Phe Leu Lys Phe His Pro Glu Leu Ser Lys Glu His Ala Pro
 1 5 10 15

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Ile	Arg	Ser	Ser	Leu	Asn	Ser	Gln	Gln	Pro	Thr	Glu	Glu	Lys	Glu	Thr
			20					25					30		
Lys	Leu	Glu	Asn	Arg	His	Ser	Leu	Glu	Ile	Ser	Ser	Ala	Leu	Asn	Met
		35					40					45			
Phe	Asn	Ile	Ala	Pro	His	Gly	Pro	Asp	Ile	Ser	Lys	Met	Gly	Ser	Ile
	50					55					60				
Asn	Lys	Asn	Lys	Val	Leu	Ser	Met	Leu	Lys	Glu	Pro	Pro	Leu	His	Glu
	65				70					75					80
Lys	Cys	Glu	Asp	Gly	Lys	Thr	Glu	Thr	Thr	Phe	Glu	Met	Ser	Met	His
				85					90					95	
Asn	Thr	Met	Lys	Ser	Lys	Ser	Pro	Leu	Pro	Leu	Thr	Leu	Gln	His	Leu
			100					105					110		
Val	Ala	Phe	Trp	Glu	Asp	Ile	Ser	Leu	Ala	Thr	Ile	Lys	Ala	Ala	Ser
		115					120					125			
Gln	Asn	Met	Ile	Phe	Pro	Ser	Pro	Gly	Ser	Cys	Ala	Val	Leu	Lys	Lys
	130					135					140				
Lys	Glu	Cys	Glu	Lys	Glu	Asn	Lys	Lys	Ser	Lys	Lys	Glu	Lys	Lys	Lys
145					150					155					160
Lys	Lys														

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